

Pioneer *sound.vision.soul*

PLASMA DISPLAY SYSTEM

SISTEMA DE PANTALLA DE PLASMA

SISTEMA DE MONITOR DE PLASMA

等離子顯示器系統

PDP-504HDG

PDP-434HDG

Operating Instructions

Manual de instrucciones

Manual de instruções

操作說明書

SRS 
WOW

HDMI
HYBRID DISPLAY VIDEO MEDIA INTERFACE

IMPORTANT



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION: THE POWER SWITCH DOES NOT COMPLETELY SEPARATES THE UNIT FROM THE MAINS IN OFF POSITION. THEREFORE INSTALL THE UNIT SUITABLE PLACES EASY TO DISCONNECT THE MAINS PLUG IN CASE OF THE ACCIDENT. THE MAINS PLUG OF UNIT SHOULD BE UNPLUGGED FROM THE WALL SOCKET WHEN LEFT UNUSED FOR A LONG PERIOD OF TIME.

WARNING: THE APPARATUS IS NOT WATERPROOFS, TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE AND DO NOT PUT ANY WATER SOURCE NEAR THIS APPARATUS, SUCH AS VASE, FLOWER POT, COSMETICS CONTAINER AND MEDICINE BOTTLE ETC.

NOTE: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

CAUTION:

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

FEDERAL COMMUNICATIONS COMMISSION DECLARATION OF CONFORMITY

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Product Name: Plasma Display System
(Plasma Display)
(Media Receiver)

Model Number: PDP-504HDG / PDP-434HDG
(PDP-504PG) / (PDP-434PG)
(PDP-R04G) / (PDP-R04G)

Product Category: Class B Personal Computers & Peripherals

Responsible Party Name: PIONEER ELECTRONICS (USA), INC., Customer Support Div.

Address: P.O. BOX 1760, LONG BEACH, CA., 90801-1760 U.S.A.

Phone: (800) 421-1625

For Business Customer URL

<http://www.PioneerUSA.com>

WARNING: BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY. THE VOLTAGE OF THE AVAILABLE POWER SUPPLY DIFFERS ACCORDING TO COUNTRY OR REGION. BE SURE THAT THE POWER SUPPLY VOLTAGE OF THE AREA WHERE THIS UNIT WILL BE USED MEETS THE REQUIRED VOLTAGE (E.G. 230V OR 120V) WRITTEN ON THE REAR PANEL.

WARNING: THIS PRODUCT EQUIPPED WITH A THREE-WIRE GROUNDING (EARTHLING) TYPE PLUG. A PLUG HAVING A THIRD (GROUNDING, EARTHLING) PIN, IT WILL ONLY FIT INTO A GROUNDING (EARTHLING) TYPE POWER OUTLET. THIS IS A SAFETY FEATURE. IF YOU ARE UNABLE TO INSERT THE PLUG INTO THE OUTLET, CONTACT YOUR ELECTRICIAN TO REPLACE YOUR OBSOLETE OUTLET. DO NOT DEFEAT THE SAFETY PURPOSE OF THE GROUNDING (EARTHLING) TYPE PLUG.

The following symbols are found on labels attached to the product. They alert the operators and service personnel of this equipment to any potentially dangerous conditions.

 **WARNING**

This symbol refers to a hazard or unsafe practice which can result in personal injury or property damage.

 **CAUTION**

This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

WARNING: NO NAKED FLAME SOURCES SUCH AS LIGHTED CANDLE, SHOULD BE PLACED ON THE APPARATUS. IF NAKED FLAME SOURCES ACCIDENTALLY FALL DOWN, FIRE SPREAD OVER THE APPARATUS THEN MAY CAUSE FIRE.

VENTILATION: WHEN INSTALLING THIS UNIT, MAKE SURE TO LEAVE SPACE AROUND THE UNIT FOR VENTILATION TO IMPROVE HEAT RADIATION. FOR THE MINIMUM SPACE REQUIRED, SEE PAGES 16 AND 17.

WARNING: SLOTS AND OPENINGS IN THE CABINET ARE PROVIDED FOR VENTILATION AND TO ENSURE RELIABLE OPERATION OF THE PRODUCT AND TO PROTECT IT FROM OVERHEATING, TO PREVENT FIRE HAZARD, THE OPENINGS SHOULD NEVER BE BLOCKED AND COVERED WITH ITEMS, SUCH AS NEWSPAPERS, TABLE-CLOTHS, CURTAINS, ETC. ALSO DO NOT PUT THE APPARATUS ON THE THICK CARPET, BED, SOFA, OR FABRIC. HAVING A THICK PILE.

Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However the method of connecting and operating the unit is the same.

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In order to obtain maximum enjoyment from this Pioneer PureVision PDP-504HDG/PDP-434HDG Plasma Display System, please first read this information carefully.

With the Pioneer PureVision PDP-504HDG/PDP-434HDG, you can be assured of a high quality Plasma Display System with long-life and high reliability. To achieve images of exceptional quality, this Pioneer Plasma Display System incorporates state-of-the-art design and construction, as well as very precise and highly advanced technology.

Over the course of its lifetime, the luminosity of the Pioneer PDP-504HDG/PDP-434HDG Plasma Display System will diminish very slowly, such as with all phosphor-based screens (for example, a traditional tube-type television). To enjoy beautiful and bright images on your Pioneer Plasma Display System for a long time, please carefully read and follow the usage guidances below:

Usage guidelines

All phosphor-based screens (including conventional tube-type televisions) can be affected by displaying static images for a prolonged period. Plasma Display System's are no exception to this rule. After-image and permanent effects on the screen can be avoided by taking some basic precautions. By following the recommendations listed below, you can ensure longer and satisfactory results from your plasma:

- Whenever possible, avoid frequently displaying the same image or virtually still moving pictures (e.g. closed-captioned images or video game images which have static portions).
- Do not display Teletext for a prolonged period of time.
- Avoid viewing the On Screen Display for extended periods, from a decoder, DVD player, VCR and all other components.
- Do not leave the same picture freeze-framed or paused continuously over a long period of time, when using the still picture mode from a TV, VCR, DVD player or any other component.
- Images which have both very bright areas and very dark areas side by side should not be displayed for a prolonged period of time.
- When playing a game, the "GAME" mode setting within "AV Selection" is strongly recommended. However, please limit its use to less than 2 hours at a time.
- After playing a game, or displaying a PC image or any still image, it is best to view a normal moving picture in the "WIDE" or "FULL" screen setting for more than 3 times the length of the previous still moving image.
- After using the Plasma Display System, always switch the display to "STANDBY" mode.

Installation guidelines

The Pioneer PureVision PDP-504HDG/PDP-434HDG Plasma Display System incorporates a very thin design. To ensure safety, please take the proper measures to mount or install the Plasma Display, in order to prevent the unit from tipping over in the event of vibration or accidental movement.

This product should be installed by using only parts and accessories designed by PIONEER. Use of accessories other than the PIONEER stand or installation bracket may result in instability, and could cause injury. For custom installation, please consult the dealer where the unit was purchased. To ensure correct installation, experienced and qualified experts must install the unit. PIONEER will not be held responsible for accident or damage caused by the use of parts and accessories manufactured by other companies.

To avoid malfunction and overheating, make sure that the vents on the main unit are not blocked when installing to ensure proper heat emission:

- Distance the unit slightly from other equipment, walls, etc. For the minimum space required around the unit, see pages 16 and 17.
- Do not fit the unit inside narrow spaces where ventilation is poor.
- Do not cover with a cloth, etc.
- Clean the vents on the sides and rear of the unit to remove dust build-up, by using a vacuum cleaner set to its lowest suction setting.
- Do not place the product on a carpet or blanket.
- Do not leave the product tilted over except the case of vertical installation of the Media Receiver.
- Do not reverse the product.

Using the unit without proper ventilation may cause the internal temperature to rise, and could result in possible malfunction. When the surrounding or internal temperature exceeds a certain degree, the display will automatically power off in order to cool the internal electronics and prevent hazardous occurrences.

Any malfunction may occur due to: an inappropriate installation site, improper assembly, installation, mounting, or operation of this product, modifications made to the product. However, PIONEER cannot be held responsible for such accidents or malfunction.

NOTE

Typical effects and characteristics of a phosphor-based matrix display, e.g., permanent residual images upon the phosphor of the panel, and the existence of a minute number of inactive light cells in the screen, are not covered by local warranties.

CAUTION

Panel sticking and after-image lag

- Displaying the same images such as still images for a long time may cause after-image lagging. This may occur in the following two cases.

1. After-image lagging due to remaining electrical load

When image patterns with very high peak luminance are displayed for more than 1 minute, after-image lagging may occur due to the remaining electric load. The after-images remaining on the screen will disappear when moving images are displayed. The time for the after-images to disappear depends on the luminance of the still images and the time they had been displayed.

2. After-image (lag image) due to burning

Avoid displaying the same image on the Plasma Display continuously over a long period of time. If the same image is displayed continuously for several hours, or for shorter periods of time over several days, a permanent after-image may remain on the screen due to burning of the fluorescent materials. Such images may become less noticeable if moving images are later displayed, but they will not disappear completely.

- The energy save function can be set to help prevent damage from screen burning (see page 42).

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your product, please read the following precautions carefully before using the product.

1. Read instructions—All operating instructions must be read and understood before the product is operated.
2. Keep this manual in a safe place—These safety and operating instructions must be kept in a safe place for future reference.
3. Observe warnings—All warnings on the product and in the instructions must be observed closely.
4. Follow instructions—All operating instructions must be followed.
5. Cleaning—Unplug the power cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
6. Attachments—Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
7. Water and moisture—Do not use the product near water, such as bathtub, washbasin, kitchen sink and laundry tub, swimming pool and in a wet basement.
8. Stand—Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.
9. When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.



10. Ventilation—The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
11. Power source—This product must operate on a power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company.
12. Power cord protection—The power cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product.

13. The plasma Display used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the plasma Display breaks.

14. Overloading—Do not overload AC outlets or extension cords. Overloading can cause fire or electric shock.

15. Entering of objects and liquids—Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.

16. Servicing—Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.

17. Repair—If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.

- a. When the power cord or plug is damaged.
- b. When a liquid was spilled on the product or when objects have fallen into the product.
- c. When the product has been exposed to rain or water.
- d. When the product does not operate properly as described in the operating instructions.

Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.

- e. When the product has been dropped or damaged.
- f. When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.

18. Replacement parts—In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.

19. Safety checks—Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.

20. Wall or ceiling mounting—When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.

21. Heat sources—Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).

22. Unplug the power cord from the AC outlet before installing the speakers.

23. Never expose the screen of the Plasma Display to a strong impact, for example, by hitting it. The screen may be broken, resulting in fire or personal injury.

24. Do not expose the Plasma Display to direct sunlight for a long period of time. The optical characteristics of the front protection panel changes, resulting in discoloration or warp.

25. The Plasma Display weighs about 38 kg (83.8 lbs.) for the PDP-504PG and about 30.5 kg (67.3 lbs.) for the PDP-434PG. Because it has small depth and is unstable, unpack, carry, and install the product with one more person at least and use the handles.

Installation Precautions

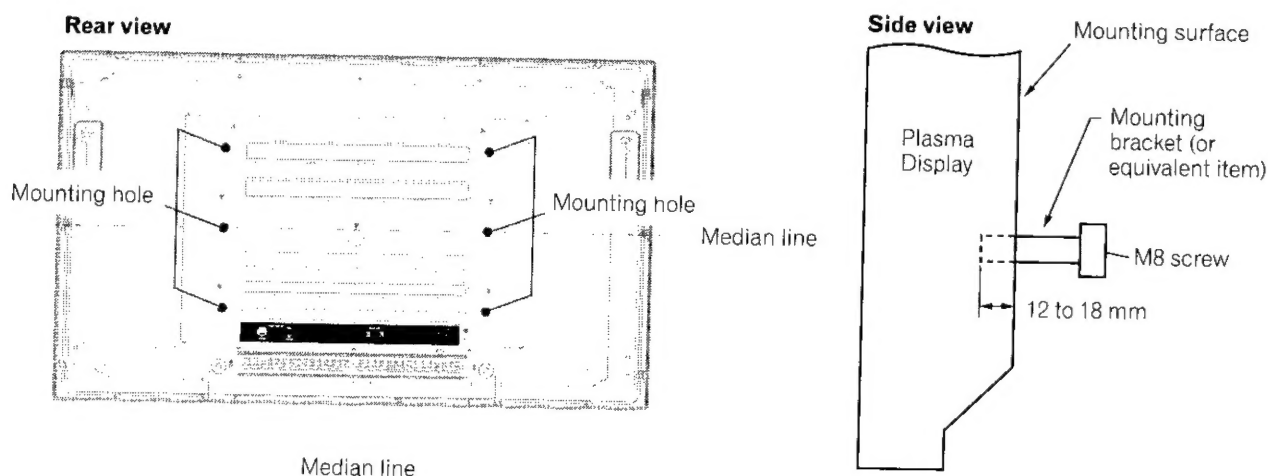
Observe the following precautions when installing with any items such as the optional stand.

When using the optional stand, brackets, or equivalent items

- Ask your dealer to perform the installation.
- Be sure to use the supplied bolts.
- For details, see the instruction manual that comes with the optional stand (or equivalent items).

When using other items

- Consult your dealer.
- The following six mounting holes can be used for the installation:



CAUTION

- Be sure to use four or more mounting holes symmetrical to the vertical and horizontal median lines.
- Use M8 screws, which go 12 to 18 mm in depth from the mounting surface of the Plasma Display. See the side view above.
- Be careful not to block the ventilation opening at the rear of the Plasma Display.
- Be sure to install the Plasma Display on a flat surface because it contains glass.
- The screw holes other than the above are to be used only for the specified products. Never use them for mounting non-specified products.
- Do not mount or remove the Plasma Display to or from the stand, with speakers attached.

NOTE

- It is strongly recommended to use the optional PIONEER mounting products.
- PIONEER shall not be liable for any personal injury or product damage that results from the use of mounting items other than the optional PIONEER products.

CAUTION

PIONEER bears no responsibility for any damages arising from incorrect use of the product by you or other people, malfunctions when in use, other product related problems, and use of the product except in cases where the company must be liable.

Plasma Display protection function

When still images (such as photos and computer images) stay on the screen for an extended period of time, the screen will be slightly dimmed. This is because the protection function of the Plasma Display automatically adjusts the brightness to protect the screen when detecting still images; so this does not designate malfunction. The screen is dimmed when a still image is detected for about three minutes.

Infrared rays

The Plasma Display releases infrared rays because of its characteristics. Depending on how the Plasma Display is in use, the remote controls of nearby equipment may be adversely affected or wireless headphones using infrared rays are interfered by noise. If this is the case, place that equipment at a location where its remote control sensor is not affected.

Radio interference

While this product meets the required specifications, it emits a small amount of noise. If you place such equipment as an AM radio, personal computer, and VCR close to this product, that equipment may be interfered. If this happens, place that equipment far enough from this product.

Fan motor noise

When ambient temperature of the Media Receiver becomes high, the rotation speed of the cooling fan motor increases. This may make you feel that the fan motor is noisy at such an occasion.

Do not attach such items as labels and tape to the product.

- This may result in the discoloration or scratch of the cabinet.

When not using the product for a long period of time

- If you do not use the product for a long period of time, the functions of the product may be adversely affected. Switch on and run the product occasionally.

Condensation

- Condensation may take place on the surface or inside of the product when the product is rapidly moved from a cold place to a warm place or just after a heater is switched on in winter morning, for example. When condensation takes place, do not switch on the product and wait until condensation disappears. Using the product with condensation may result in malfunction.

Cleaning the screen

- When cleaning the screen of this product, gently wipe it with a dry soft cloth; the supplied cleaning cloth or other similar cloths (e.g., cotton and flannel). If you use a hard cloth or rub the screen hard, the surface of the screen will be scratched.
- If you clean the surface of the screen with a wet cloth, water droplets on the surface may enter into the product, resulting in malfunction.

Cleaning the cabinet

- The cabinet of this product is mostly composed of plastic. Do not use chemicals such as benzine or thinner to clean the cabinet. Using these chemicals may result in quality deterioration or coating removal.
- Do not expose the product to volatile gas or fluid such as pesticide. Do not make the product contact with rubber or vinyl products for a long period of time. The effect of plasticizer in the plastic may result in quality deterioration or coating removal.
- If you clean the surface of the cabinet with a wet cloth, water droplets on the surface may enter into the product, resulting in malfunction.

Handles at the rear of the Plasma Display

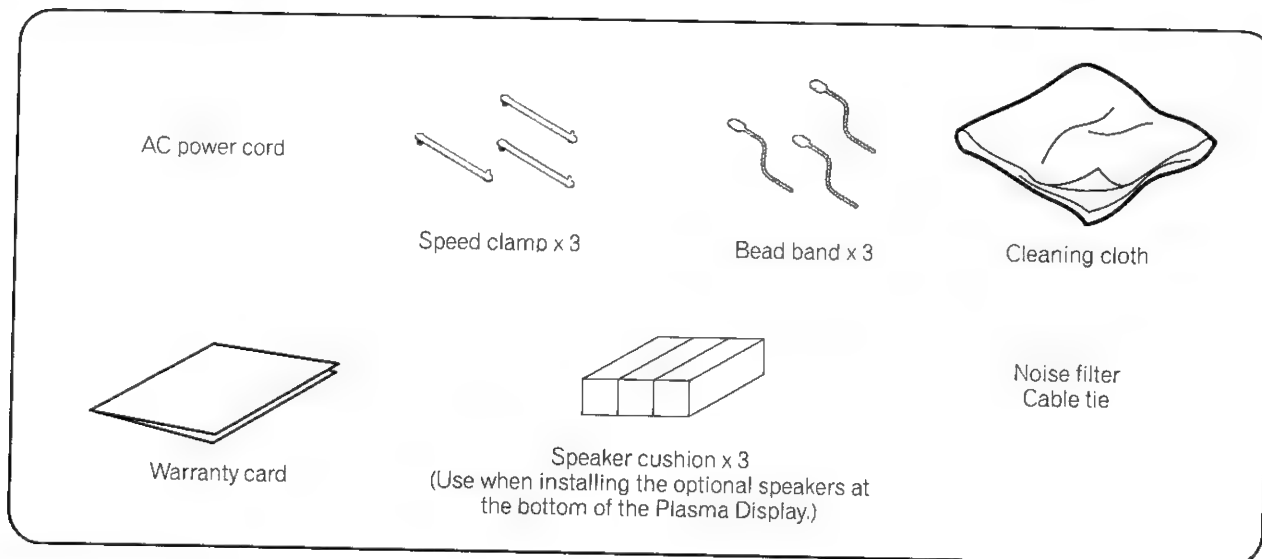
- Do not remove the handles from the rear of the Plasma Display.
- When moving the Plasma Display, ask another person for help and use the handles attached to the rear of the Plasma Display. Do not move the Plasma Display by holding only a single handle. Use the handles as shown.
- Do not use the handles to hang the product when installing or carrying the product, for example. Do not use the handles for the purpose of preventing the product from tilting over.

Supplied Accessories

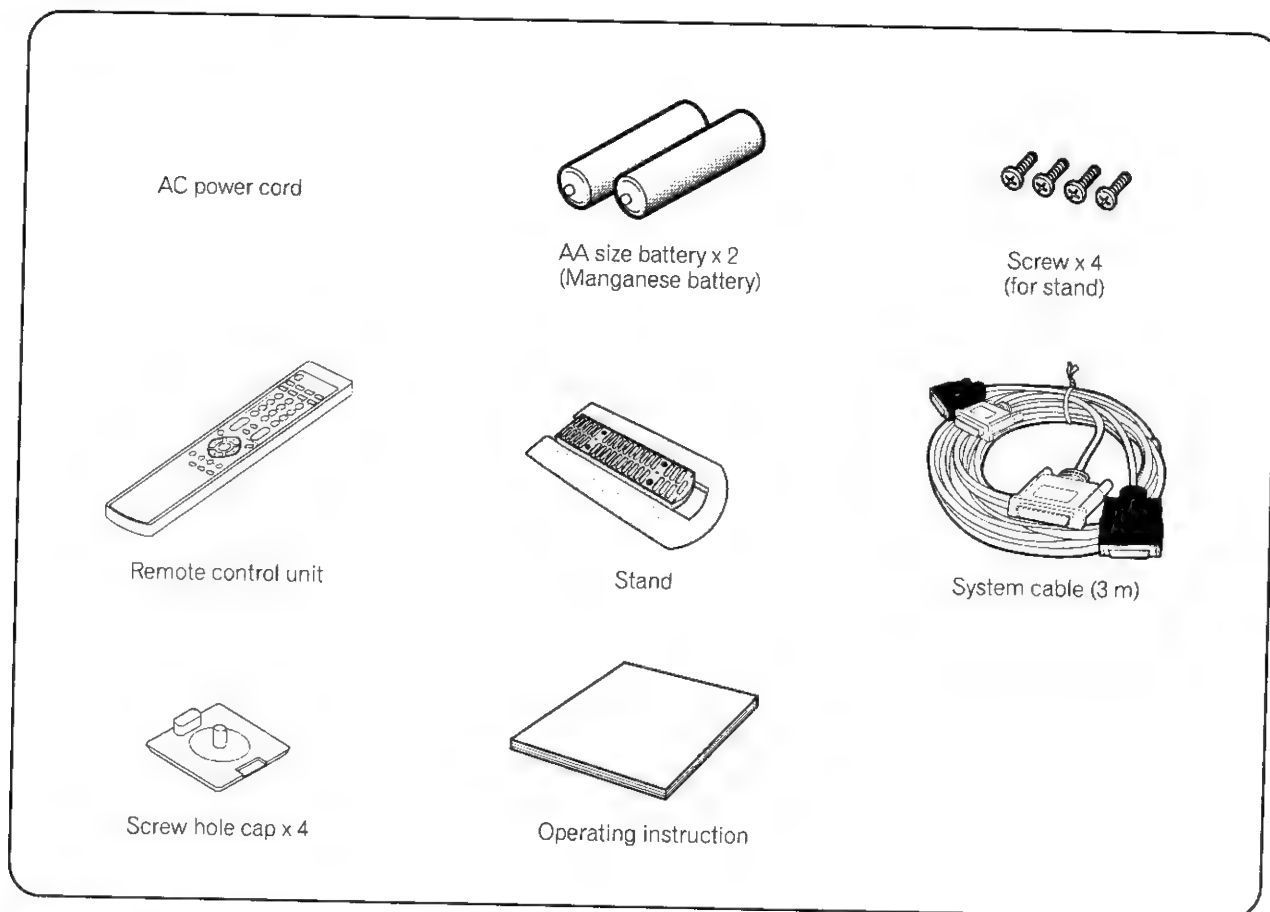
04

English

Plasma Display



Media Receiver



NOTE

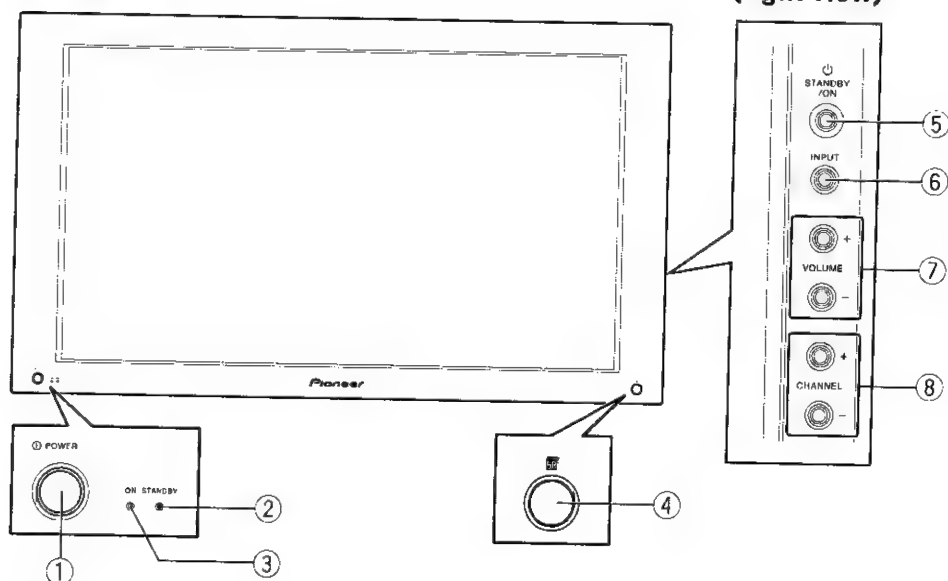
- Always use the power cord supplied with the Plasma Display and the one supplied with the Media Receiver for each respective unit.

11

En

Plasma Display

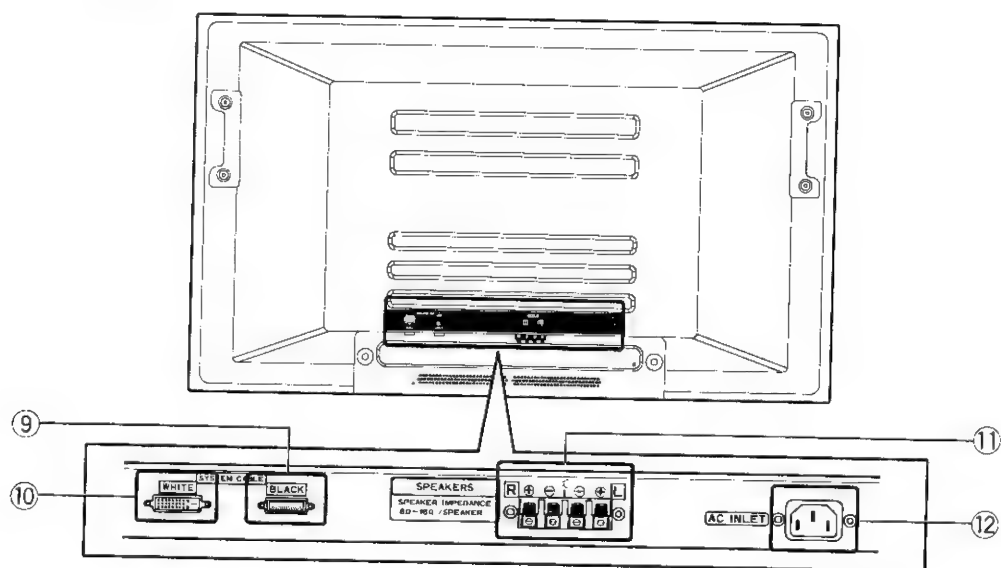
Front view



- ① **POWER** button
- ② **STANDBY** indicator
- ③ **POWER ON** indicator
- ④ Remote control sensor

- ⑤ **STANDBY/ON** button
- ⑥ **INPUT** button
- ⑦ **VOLUME +/-** buttons
- ⑧ **CHANNEL +/-** buttons

Rear view



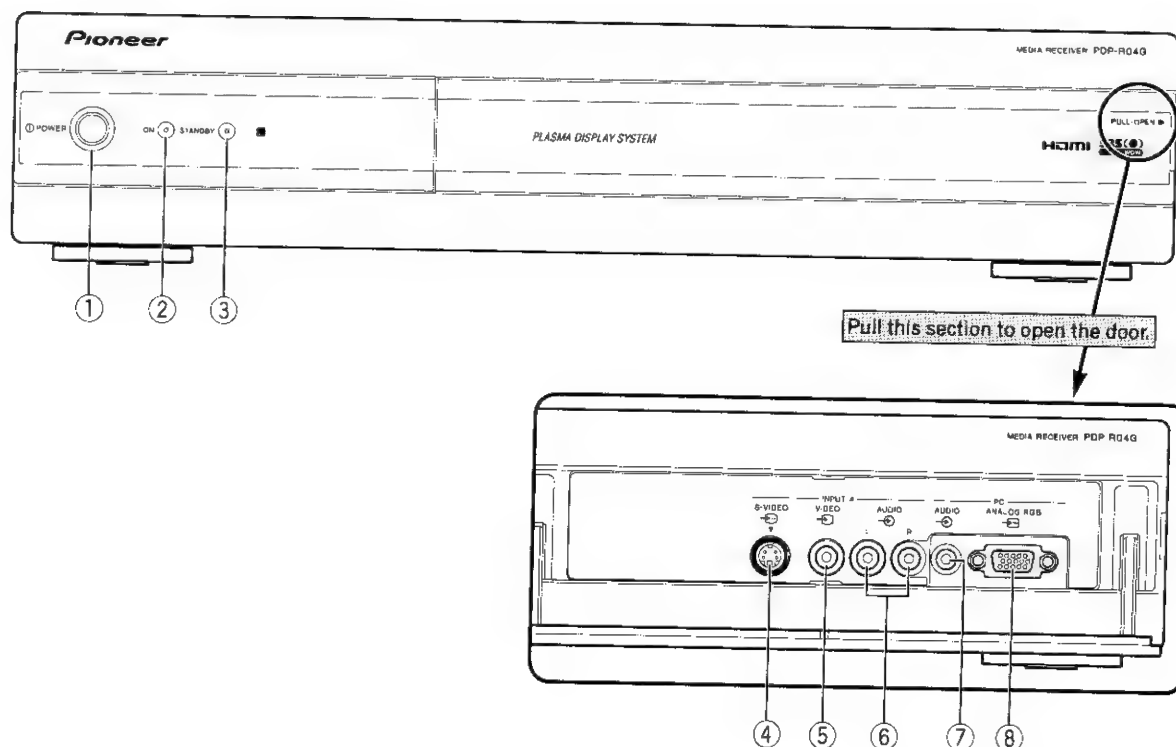
The terminals have faced downward.

- ⑨ **SYSTEM CABLE** terminal (BLACK)
- ⑩ **SYSTEM CABLE** terminal (WHITE)

- ⑪ **SPEAKER** (right/left) terminals
- ⑫ **AC INLET** terminal

Media Receiver

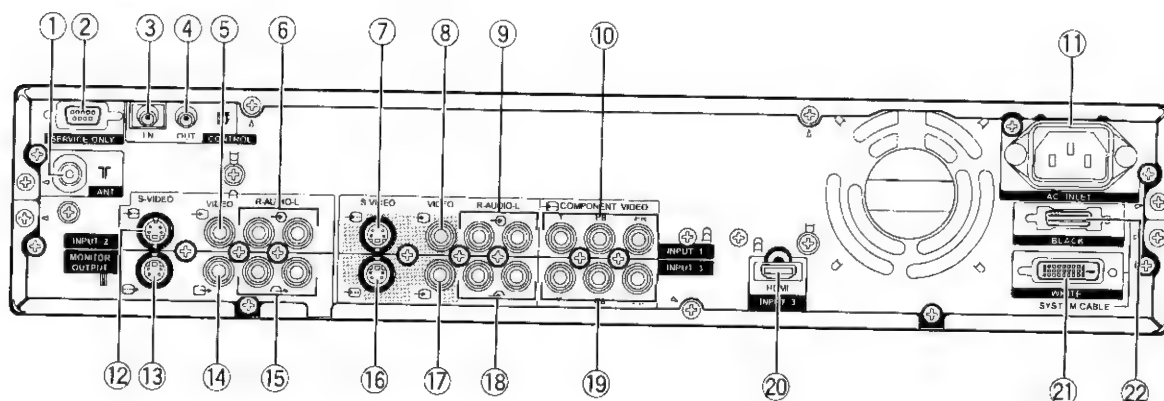
Front view



- ① **POWER** button
- ② POWER ON indicator
- ③ STANDBY indicator
- ④ INPUT 4 terminal (S-VIDEO)

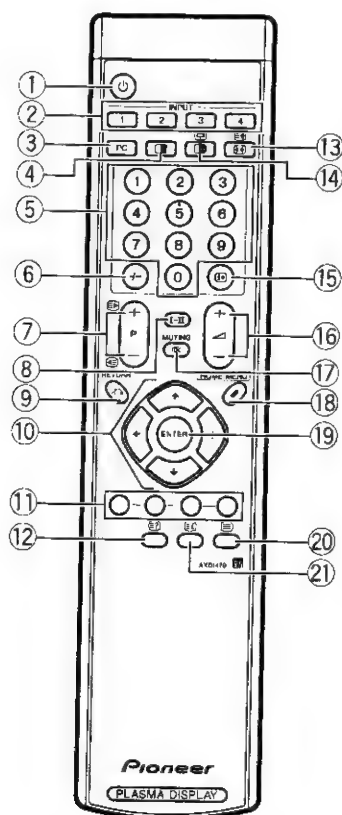
- ⑤ INPUT 4 terminal (VIDEO)
- ⑥ INPUT 4 terminals (AUDIO)
- ⑦ PC INPUT terminal (AUDIO)
- ⑧ PC INPUT terminal (ANALOG RGB)

Rear view



- | | |
|-------------------------------------------------|-------------------------------------------------|
| ① Antenna input terminal | ⑫ INPUT 2 terminal (S-VIDEO) |
| ② RS-232C terminal (used in the factory setup) | ⑬ MONITOR OUTPUT terminal (S-VIDEO) |
| ③ Control input terminal | ⑭ MONITOR OUTPUT terminal (VIDEO) |
| ④ Control output terminal | ⑮ MONITOR OUTPUT terminals (AUDIO) |
| ⑤ INPUT 2 terminal (VIDEO) | ⑯ INPUT 3 terminal (S-VIDEO) |
| ⑥ INPUT 2 terminals (AUDIO) | ⑰ INPUT 3 terminal (VIDEO) |
| ⑦ INPUT 1 terminal (S-VIDEO) | ⑱ INPUT 3 terminals (AUDIO) |
| ⑧ INPUT 1 terminal (VIDEO) | ⑲ INPUT 3 COMPONENT VIDEO terminals (Y, PB, PR) |
| ⑨ INPUT 1 terminals (AUDIO) | ⑳ INPUT 3 terminal (HDMI) |
| ⑩ INPUT 1 COMPONENT VIDEO terminals (Y, PB, PR) | ㉑ SYSTEM CABLE terminal (WHITE) |
| ⑪ AC INLET terminal | ㉒ SYSTEM CABLE terminal (BLACK) |

Remote control unit



- ① Turns on the power to the Plasma Display or places it into standby mode.
- ② **INPUT 1, 2, 3, 4** Selects an input source.
- ③ **PC** Selects the PC terminal as an input source.
- ④ Switches the screen mode among 2-screen, picture-in-picture, and single-screen.
- ⑤ **0 - 9** Switches on the power to the Plasma Display.
TV/External input mode: Selects a channel.
TELETEXT mode: Selects a page.
- ⑥ **-/-** Selects the two digit mode.
- ⑦ **P +/P -** TV/External input mode: Selects a channel.
 TELETEXT mode: Selects a page.

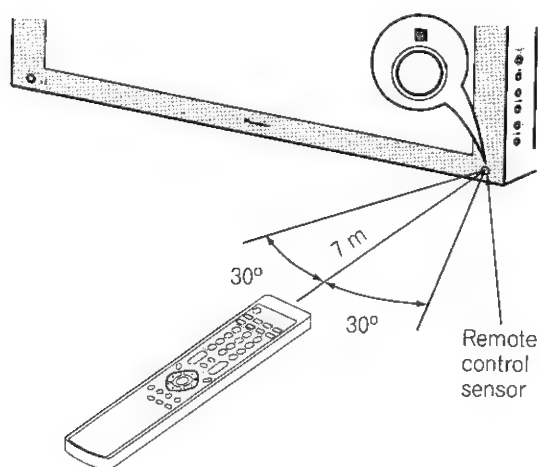
- ⑧ **I-II** Sets the sound multiplex mode.
- ⑨ (RETURN) Restores the previous menu screen.
- ⑩ Selects a desired item on the setting screen.
- ⑪ **Color (RED/GREEN/YELLOW/BLUE)** TELETEXT mode: Selects a page.
- ⑫ TELETEXT mode: Displays hidden characters.
- ⑬ TV/External input mode: Changes the wide screen size.
 TELETEXT mode: Switches Teletext images. (full/upper half/lower half)
- ⑭ Freezes a frame from a moving image. Press again to cancel the function.
 TELETEXT mode: Stops updating Teletext pages. Press again to release the hold mode.
- ⑮ Displays the channel information.
- ⑯ Sets the volume.
- ⑰ Mutes the sound.
- ⑱ **HOME MENU** TV/External Input mode: Displays the Menu screen.
- ⑲ **ENTER** Executes a command.
- ⑳ Selects the TELETEXT mode. (all TV image, all TEXT image, TV/TEXT image)
- ㉑ TELETEXT mode: Displays an Index page for the CEEFAX/FLOF format. Displays a TOP Over View page for the TOP format.

NOTE

- When using the remote control unit, point it at the Plasma Display.

Allowed operation range of the remote control unit

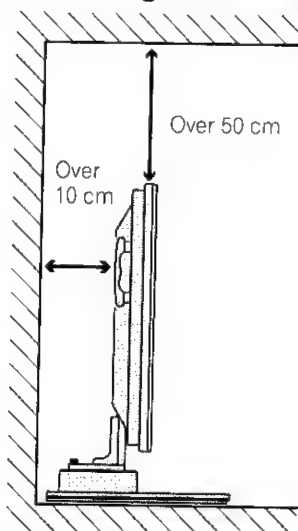
Operate the remote control unit while pointing it toward the remote control sensor (SR) located at the bottom right of the front panel of the Plasma Display. The distance from the remote control sensor must be within 7 m and the angle relative to the sensor must be within 30 degrees in the right or left direction.



When the remote control unit does not function properly

- When any obstacle exists between the remote control unit and the remote control sensor, the remote control unit may not function.
- As the batteries become empty, the remote control unit can function within a shorter distance from the remote control sensor. Replace the batteries with new ones early enough.
- The Plasma Display emits very weak infrared rays from its screen. If you place such equipment operated through infrared remote control as a VCR nearby, that equipment may not receive commands from its remote control unit properly or entirely. If this is the case, place that equipment at a location far enough from the Plasma Display.
- Depending on the installation environment, infrared rays from the Plasma Display may not allow this system to properly receive commands from the remote control unit or may shorten allowable distances between the remote control unit and the remote control sensor. The strength of infrared rays emitted from the screen differs, depending on images displayed on the screen.

Installing the Plasma Display



Locating

- Avoid direct sunlight. Maintain adequate ventilation.
- The length of the system cable used to connect the Plasma Display and the Media Receiver is about 3 m.
- Because the Plasma Display is heavy, be sure to have someone help you when moving it.

CAUTION

- If you place anything on the top of the Media Receiver it will not receive enough ventilation and will not operate properly.

NOTE

- Allow enough space around the upper and back parts when installing to ensure ventilation around the backside.

Using the optional PIONEER stand

- For details on installation, refer to the instruction manual provided with the stand.

Using the optional PIONEER speakers

- For details on installation, refer to the instruction manual provided with the speaker.

CAUTION

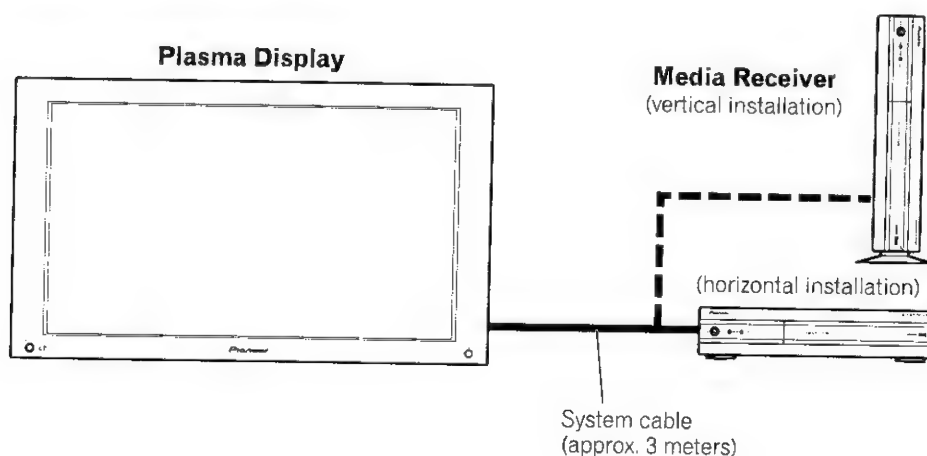
Operating Environment

Operating environment temperature and humidity: +0°C to +40°C; less than 85% RH (cooling vents not blocked)

Avoid installing in the following locations:

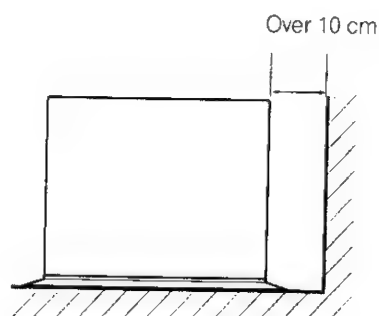
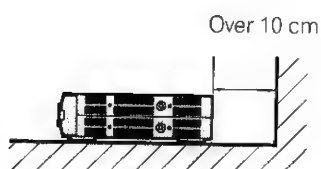
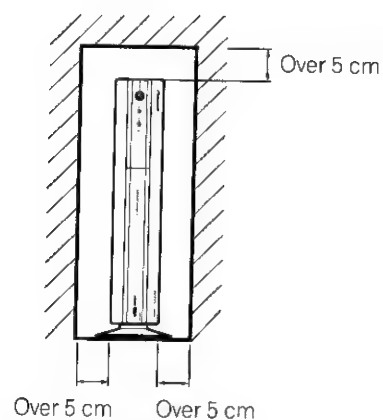
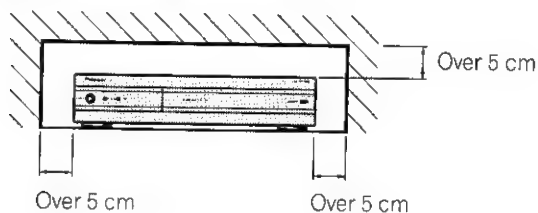
- Under direct exposure to sunlight
- Under strong artificial light
- In high humidity
- Poorly ventilated

Installing the Media Receiver



CAUTION

- Do not place a VCR or any other device on top of the Media Receiver.
- When installing, allow enough space on the sides and above the Media Receiver.
- Do not block the cooling vent on any side of the Media Receiver or the rear ventilation fan opening of the Media Receiver.

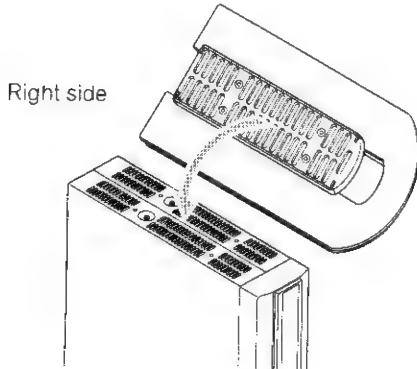


Installing the Media Receiver vertically

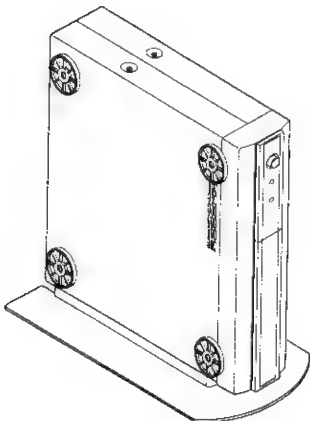
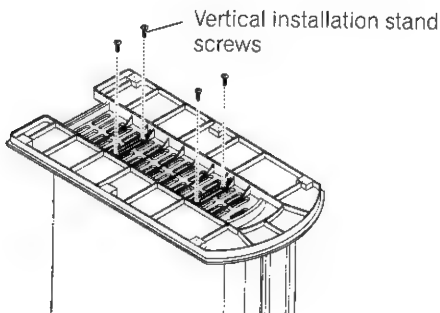
You can use the accompanying stand to install the Media Receiver vertically.

Installing the Media Receiver vertically

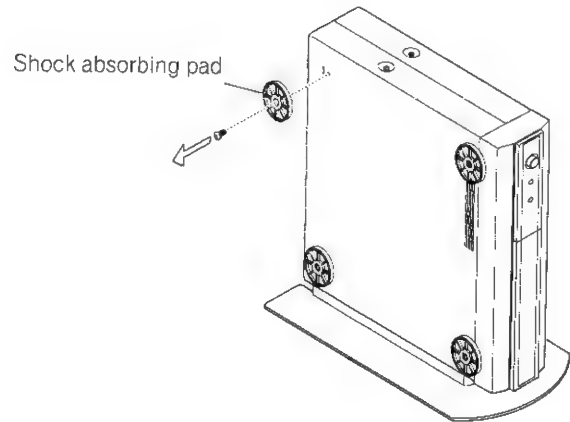
Insert the vertical installation stand into the side of the Media Receiver.



Secure the vertical installation stand with screws.

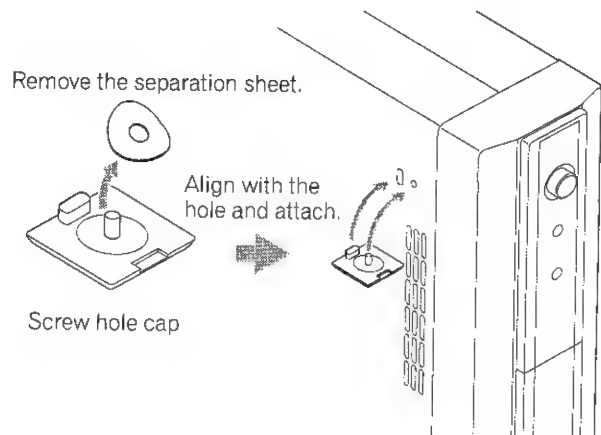


You can remove the shock absorbing pads.



Keep the shock absorbing pads and screws. They are required when you place the Media Receiver in the horizontal position.

Plug the screw holes using the caps provided.

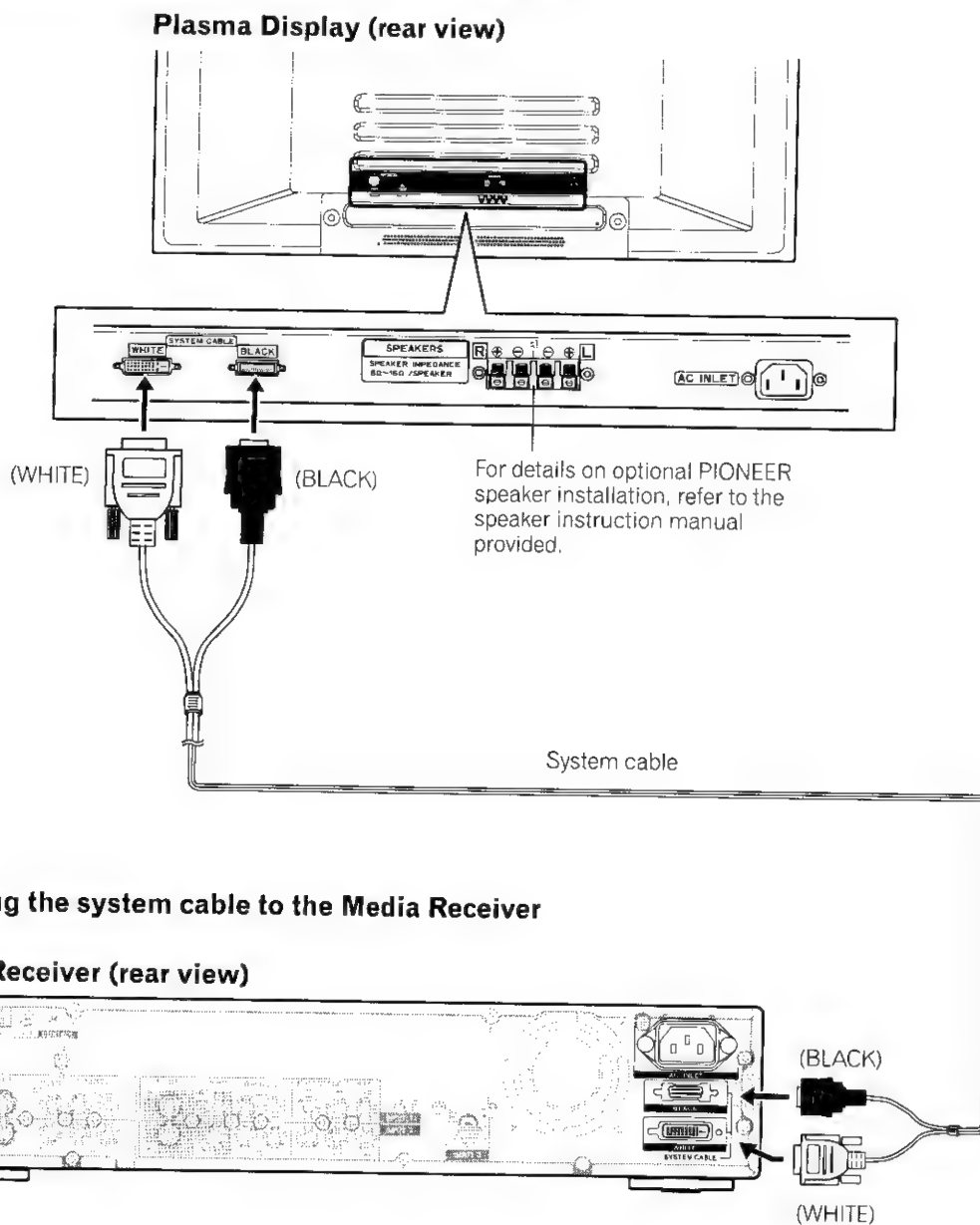


CAUTION

- When you have installed the Media Receiver vertically, always use the accompanying stand. If you place the unit directly on the floor the cooling vents will be blocked which will result in mechanical failure.

Setting the system

Connecting the system cable to the Plasma Display



Connecting the system cable to the Media Receiver

⚠ CAUTION

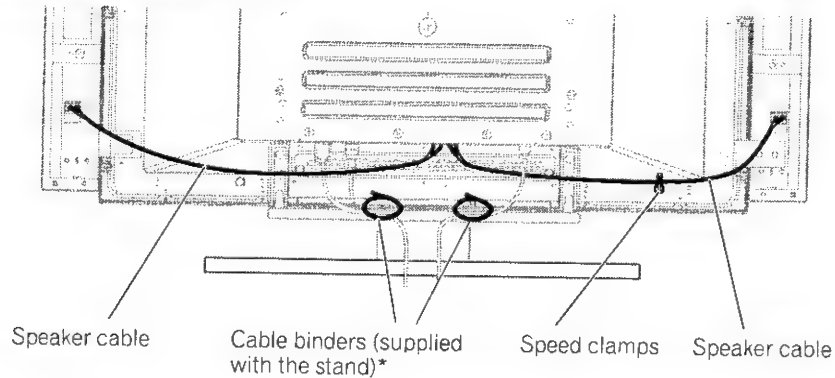
- THESE SPEAKER TERMINALS CAN BE UNDER HAZARDOUS VOLTAGE WHEN YOU CONNECT OR DISCONNECT THE SPEAKER CABLES, TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT TOUCH UNINSULATED PARTS BEFORE DISCONNECTING THE POWER CORD.

Routing cables

Speed clamps and bead bands are included with this system for bunching cables. Once properly bunched, follow the steps below to route the cables.

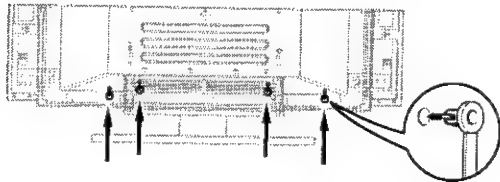
When the speakers are installed on the sides

(rear view)



Attaching speed clamps to the main unit

Attach the speed clamps using the 4 holes marked with ↑ below, depending on your routing system.

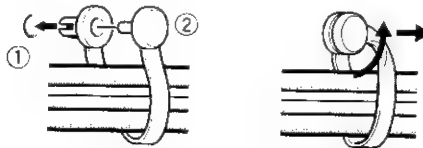


Attaching and removing speed clamps

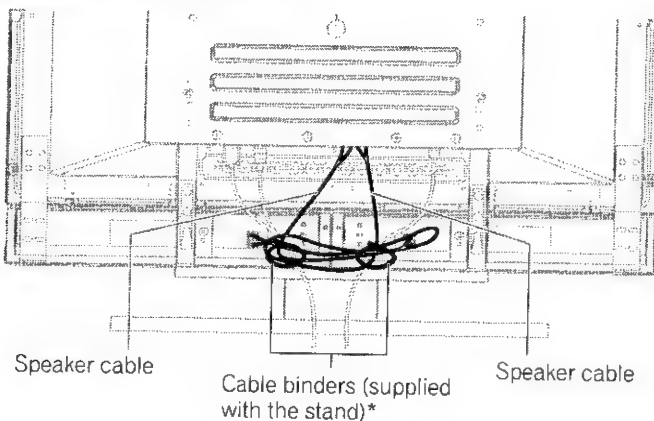
Insert ① into an appropriate hole on the rear of the Plasma Display and snap ② into the back of ① to lock the clamp.

Speed clamps are designed to be difficult to undo once in place. Please attach them carefully.

Use pliers to twist the clamp 90°, pulling outward. The clamp may deteriorate over time and become damaged if removed.



When the speakers are installed at the bottom



* Cable binder

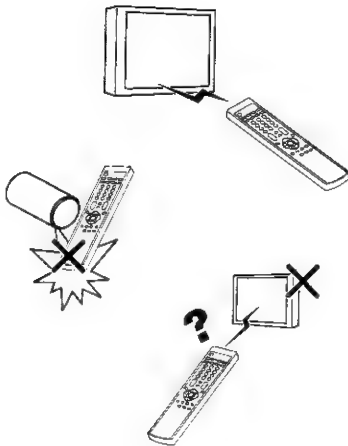
Using the cable binders supplied with the stand, put the speaker and system cables together so that the cables are invisible from the front. At that time be careful not to apply any force to the connection sections of the cables.

Using the remote control unit

Use the remote control unit by pointing it towards the remote control sensor. Objects between the remote control unit and the sensor may prevent proper operation.

Cautions regarding the remote control unit

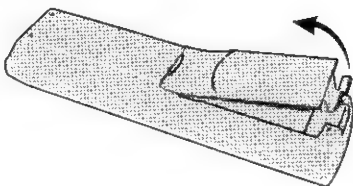
- Do not expose the remote control unit to shock. In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote control sensor of the Plasma Display is under direct sunlight or strong lighting. In such case, change the angle of the lighting or Plasma Display set, or operate the remote control unit closer to the remote control sensor.



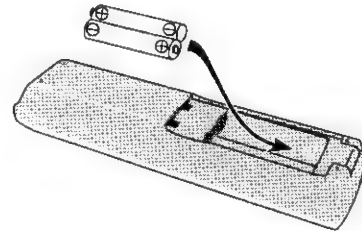
Inserting batteries

If the remote control unit fails to operate Plasma Display System functions, replace the batteries in the remote control unit.

- 1 Open the battery cover.

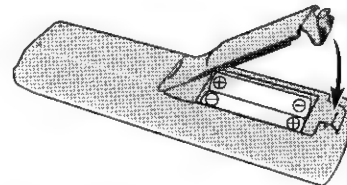


- 2 Insert the two AA size batteries supplied with the product.



- Place batteries with their terminals corresponding to the (+) and (-) indicators in the battery compartment.

- 3 Close the battery cover.



Cautions regarding batteries

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- Do not use alkaline batteries. When you replace the batteries, use manganese ones.
- Place the batteries with their terminals corresponding to the (+) and (-) indicators.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not use the remote control unit for an extended period of time, remove the batteries from it.

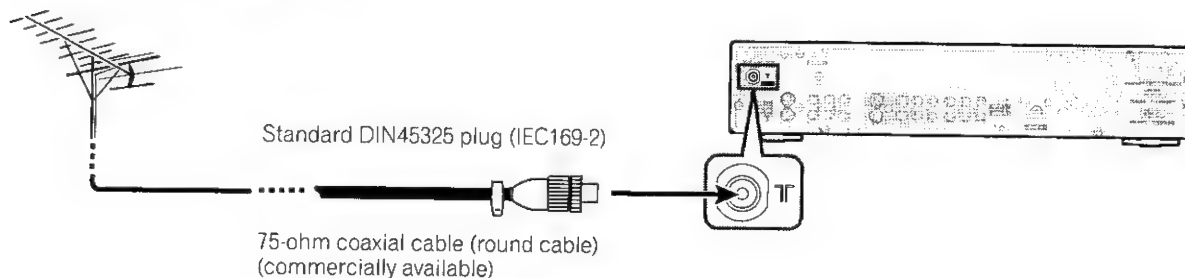
CAUTION

- **WHEN DISPOSING OF USED BATTERIES, PLEASE COMPLY WITH GOVERNMENTAL REGULATIONS OR ENVIRONMENTAL PUBLIC INSTRUCTION'S RULES THAT APPLY IN YOUR COUNTRY/AREA.**

Basic connections

Connecting to an antenna

To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for a coaxial cable.



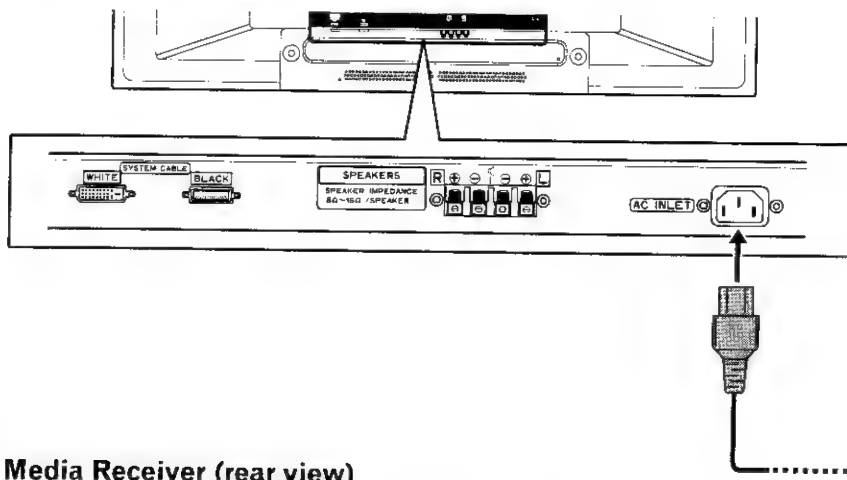
Antenna cable-commercially available



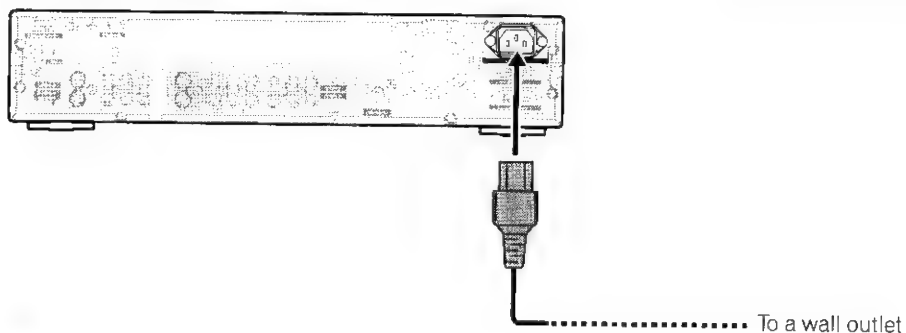
If your outdoor antenna uses a 75-ohm coaxial cable with a standard DIN45325 plug (IEC169-2), plug it into the antenna terminal at the rear of the Media Receiver.

Connecting the power cord

Plasma Display (bottom view)



Media Receiver (rear view)

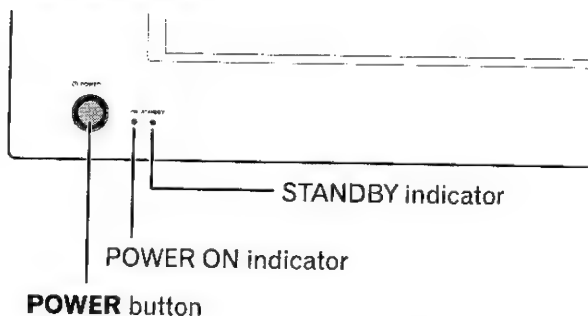


NOTE

- Always turn off the main power of the Plasma Display and Media Receiver when connecting the power cords.
- Disconnect the power cord from the power outlet, Plasma Display and Media Receiver when the system is not going to be used for a long period of time.

Unless you set up TV channels that you can watch under the current conditions, you cannot tune in those channels. For the procedure, see "Setting up TV channels automatically" on pages 30 to 31.

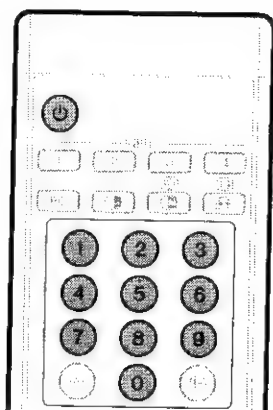
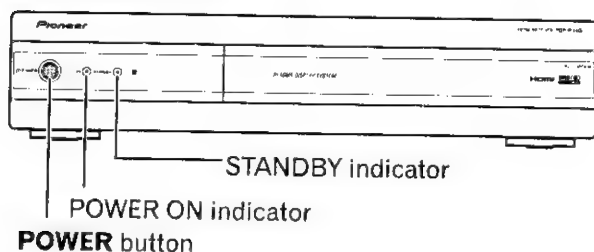
Plasma Display



(right view)



Media Receiver



Turning on the power

- 1 Press **POWER** on the Plasma Display.
 - The **STANDBY** indicator on the Plasma Display flashes red.
- 2 Press **POWER** on the Media Receiver.
 - The system is turned on or placed into the standby mode.
- 3 Confirm that the **STANDBY** indicators light up red, and then press any button **0** to **9** or **⏻** on the remote control unit or **STANDBY/ON** on the Plasma Display to turn the system on.
 - In the standby mode, when you press **0**, the power turns on and the on-screen image comes from the **INPUT 1** source. Or, when you press any button from **1** to **9**, a TV image displays.
 - The **POWER ON** indicators on the Plasma Display and Media Receiver light up in green.

NOTE

- In this manual, "system" mean the Plasma Display Panel and Media Receiver.
- You can also reverse steps 1 and 2.





















Turning off the power

- 1 Press **⏻** on the remote control unit or **STANDBY/ON** on the Plasma Display.
 - The system enters standby mode and the image on the screen disappears.
 - Both **STANDBY** indicators light up in red.
- 2 Press **POWER** on the Media Receiver.
 - The **STANDBY** indicator on the Media Receiver turns off and the one on the Plasma Display flashes red.
- 3 Press **POWER** on the Plasma Display.
 - The **STANDBY** indicator on the Plasma Display turns off.

NOTE

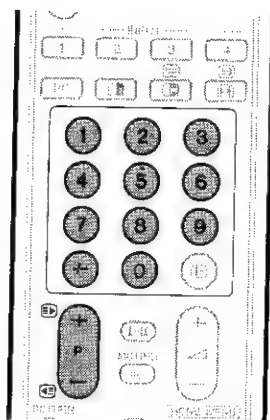
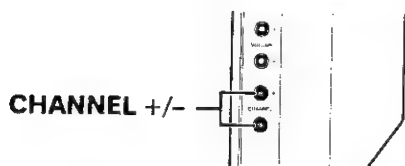
- You can also reverse steps 2 and 3.
- If you are not going to use this system for a long period of time, be sure to remove the power cord from the power outlet.
- When the system is placed into the standby mode, the main power flow is cut and the system is no longer fully operational. A minute flow of power feeds the system to maintain operation readiness.

Plasma Display/Media Receiver status indicators

Indicator Status				System Status
Plasma Display		Media Receiver		
POWER ON	STANDBY	POWER ON	STANDBY	
				Power to the Plasma Display and Media Receiver is off. Or the power cords have been disconnected.
				Power to the system is on.
				The system is in the standby mode.
	 Flashing			Power to the Media Receiver is off. Or the power cord has been disconnected from the Media Receiver.
			 Flashing	Power to the Plasma Display is off. Or the power cord has been disconnected from the Plasma Display.

For other than the above, see "Troubleshooting" on page 63.

Plasma Display
(right view)



Channel display



Changing channels

Using P +/- on the remote control unit

- Press **P +** to increase the channel number.
- Press **P -** to decrease the channel number.

When viewing Teletext information:

- Press **P +** to increase the page number.
- Press **P -** to decrease the page number.

NOTE

- **CHANNEL +/-** on the Plasma Display operates the same as **P +/-**.

Using 0 - 9 on the remote control unit

Select channels directly by pressing buttons **0** to **9**.

EXAMPLE

- To select channel 2 (1-digit channel), press **2**.
- To select channel 12 (2-digit channel), press **-/--** to select 2-digit input. Then press **1**, followed by **2**.

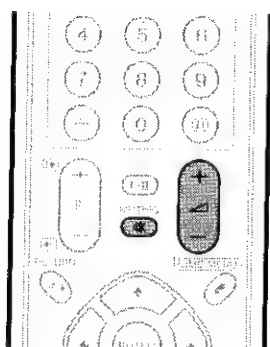
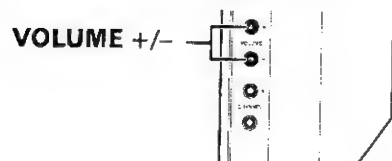
When viewing Teletext information:

View a page directly which is 3-digit page number from 100 to 899 by pressing buttons **0** to **9**. With Teletext, you do not use **-/--**. See page 45.

NOTE

- In the standby mode, when you press **0**, the power turns on and the on-screen image comes from the INPUT 1 source. Or, when you press any button from **1** to **9**, a TV image displays.

Plasma Display
(right view)



Changing the volume and sound

Using +/- on the remote control unit

- To increase the volume, press +.
- To decrease the volume, press -.

NOTE

- **VOLUME +/-** on the Plasma Display operates the same as +/-.

Using on the remote control unit

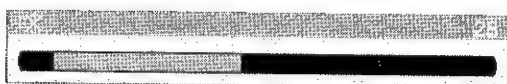
mutes the current sound output.

- 1 Press .
- " " appears on the screen.
- 2 Press again to cancel the mute mode.
- Pressing + can also cancel the mute mode.

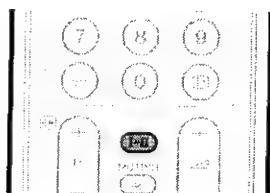
Volume adjustment



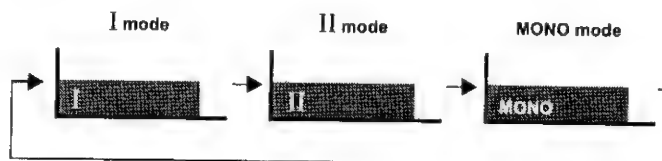
Mute



Using I-II on the remote control unit



Each time you press **I-II**, MTS toggles as shown below.



		Setting		
		I	II	MONO
NICAM Broadcasts	Stereo	1 AAA NICAM STEREO	1 AAA NICAM STEREO	1 AAA MONO
	Bilingual	2 BBB NICAM I	2 BBB NICAM II	2 BBB MONO
	Monaural	3 CCC NICAM MONO	3 CCC NICAM MONO	3 CCC MONO
A2 Broadcasts	Stereo	4 DDD STEREO	4 DDD STEREO	4 DDD MONO
	Bilingual	5 EEE DUAL I	5 EEE DUAL II	5 EEE MONO
	Monaural	6 FFF MONO	6 FFF MONO	6 FFF MONO
BTSC Broadcasts	Stereo	4 GGG STEREO	4 GGG STEREO	4 GGG MONO
	MAIN+SAP	5 HHH MAIN(SAP)	5 HHH SAP(MAIN)	5 HHH MONO(SAP)
	Stereo+SAP	5 JJJ STEREO(SAP)	5 JJJ SAP(STEREO)	5 JJJ MONO(SAP)
	Monaural	6 KKK MONO	6 KKK MONO	6 KKK MONO

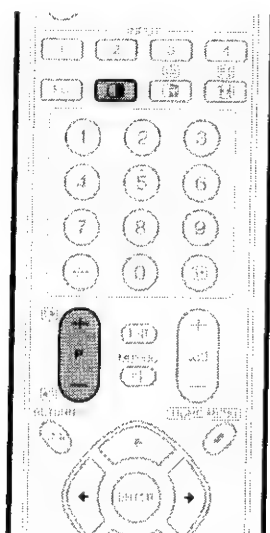
NOTE

- In each of the sound multiplex mode selected using the **I-II** button, the display changes depending on broadcasting signals being received.
- Once the MONO mode is selected, the Plasma Display System sound remains mono even if the system receives a stereo broadcast. You must switch the mode back to **I** or **II** mode if you want to hear stereo sound again.
- Selecting a sound multiplex mode while the input source is INPUT 1 to 4 or PC does not change the type of sound. In this case, sound is determined by the video source.

Using the multiscreen functions

Splitting the screen

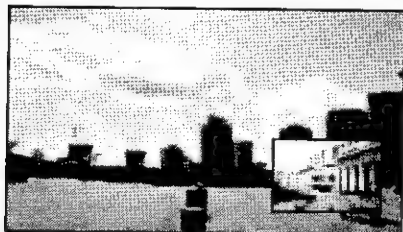
Use the following procedure to select the 2-screen or picture-in-picture mode.






2-screen



Picture-in-picture



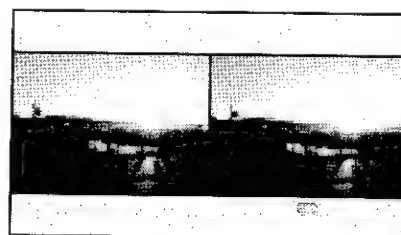
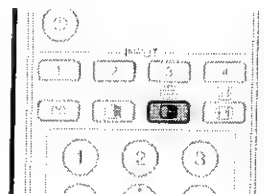
- 1 Press  to select the display mode.
 - Each time you press , the display mode is switched among 2-screen, picture-in-picture, and single-screen.
- 2 Press  to select a screen to be active.
 - "P" appears on the active screen, which outputs sound.
- 3 To select the desired input source, press the appropriate input source button.
- 4 If watching TV programs, press **P+/P-** to change the channel.



NOTE

- The multiscreen function cannot display images from the same input source at the same time. If you make such an attempt, a warning message appears.
- When you press **HOME MENU**, the single-screen mode is restored and the corresponding menu is displayed.
- When in the 2-screen mode, images displayed on the right screen may look less fine, depending on images.

Freezing images

Use the following procedure to capture and freeze one frame from a moving image that you are watching.



- 1 Press .
 - A still image appears on the right screen while a moving image is shown on the left screen.
- 2 Press  again to cancel the function.

NOTE

- With the screen split, any image cannot be frozen.
- When this function is not available, a warning message appears.

Using the menu

AV mode menus

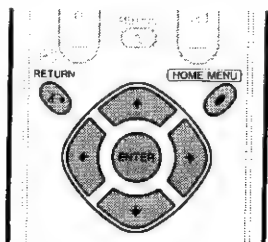
Home Menu	Item	Description	Page
Picture	AV Selection	Select from the five display mode options; STANDARD, DYNAMIC, MOVIE, GAME, and USER.	35
	Contrast	Adjusts the picture between light and shade.	36
	Brightness	Adjusts picture brightness.	36
	Color	Adjusts color intensity.	36
	Tint	Adjusts skin color to a more natural tone for all color system.	36
	Sharpness	Adjusts picture sharpness.	36
	Pro Adjust	Adjusts the levels of PureCinema, Color Temp, MPEG NR, DNR, CTI, DRE, and Color Management.	37-40
	Reset	All image adjustment settings return to the factory defaults.	36
Sound	Treble	Adjusts the treble weaker or stronger.	41
	Bass	Adjusts the bass weaker or stronger.	41
	Balance	Adjusts audio output between left and right speakers.	41
	Reset	All audio adjustment settings return to the factory defaults.	41
	FOCUS	Shift the sound coming direction (sound images) upward and produces clear sound contours.	41
	Front Surround	Provides three-dimensional sound effects and/or deep, rich bass.	42
Power Control	Energy Save	Saves power by decreasing picture brightness.	42
	No Signal off	Places the system into the standby mode when no signal is received for 15 minutes.	43
	No Operation off	Places the system into the standby mode when no operation is performed for three hours.	43
Sleep Timer		Automatically places the system into the standby mode when the selected time elapses.	61
Option	Position	Adjusts the vertical and horizontal positions of displayed images.	56
	WSS	Allows you to view information in the wide screen mode when wide screen signals are included in Teletext data.	59
	4:3 Mode	Select the aspect ratio of video signals.	60
	Color System	Select the color system compatible with images on the screen.	57
	Side Mask	With the 4:3 screen size selected, sets the brightness of the gray side masks that appear at both sides of the screen.	60
Setup	Auto Installation	Allows you to set up TV channels and select a language to be used for on-screen display.	30
	Program Setup	Sets up TV channels.	31-34
	Password	Prevents other persons from changing important settings.	61-62
	Language	Select the language to be used for on-screen display such as menus and instructions and the one to be used in the TELETEXT mode.	34

PC mode menus

Home Menu	Item	Description	Page
Picture	AV Selection	Select from the two display mode options; STANDARD and USER.	35
	Contrast	Adjusts the picture between light and shade.	36
	Brightness	Adjusts picture brightness.	36
	Red	Adjusts red color intensity.	36
	Green	Adjusts green color intensity.	36
	Blue	Adjusts blue color intensity.	36
	Reset	All image adjustment settings return to the factory defaults.	36
Sound	Treble	Adjusts the treble weaker or stronger.	41
	Bass	Adjusts the bass weaker or stronger.	41
	Balance	Adjusts audio output between left and right speakers.	41
	Reset	All audio adjustment settings return to the factory defaults.	41
	FOCUS	Shifts the sound coming direction (sound images) upward and produces clear sound contours.	41
	Front Surround	Provides three-dimensional sound effects and/or deep, rich bass.	42
Power Control	Energy Save	Saves power by decreasing picture brightness.	42
	Power Management	Automatically places the system into the standby mode when no signal is received from the personal computer.	44
Sleep Timer		Automatically places the system into the standby mode when the selected time elapses.	61
Option	Auto Setup	Automatically optimizes image positions and clock.	56
	Manual Setup	Allows you to manually adjust image positions and clock.	57

Menu operation keys

Use the following keys on the remote control to operate the menu. For detailed menu operations, see appropriate pages that describe individual functions.



- HOME MENU:** Press to open or close the Home menu.
- ↑/↓:** Press to select a menu item. For some menu items, you can select parameters using these keys.
- ←/→:** Press to select a parameter or adjustment level for menu items.
- ENTER:** Press to proceed to lower menu levels. For some menu items, you need to press this key to complete selections.
- RETURN:** Press to return to upper menu levels.

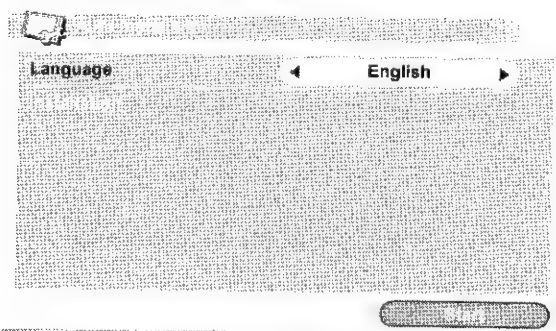
Setting up TV channels automatically

This section describes how to automatically search and set up TV channels.

Using Auto Installation

When the Plasma Display System is switched on for the first time after purchase, the initial auto installation is initiated. You can automatically set language, country and channels in successive operations.

- 1 Press **↑/↓** to select "Language", and then press **←/→** to select a language.



- You can select from among five languages; English, Spanish, Portuguese, Traditional chinese and Simplified chinese.
- 2 Press **↑/↓** to select "Start", and then press **ENTER**.
 - Auto Installation automatically starts.
 - To quit Auto Installation in progress, press **RETURN**.
 - 3 After Auto Installation has been finished, press **HOME MENU** to exit the menu.

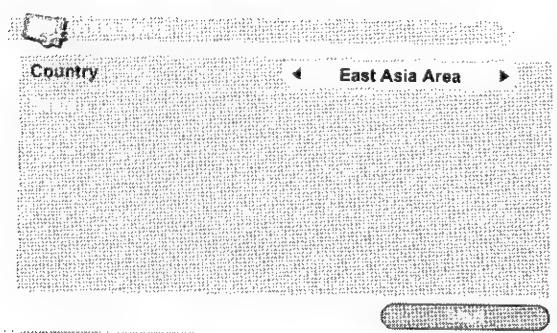
NOTE

- You can start Auto Installation from the Home menu after moving to another country, for example. Before doing steps 1 to 3 above, do the following steps 1 to 3.
 - ① Press **HOME MENU**.
 - ② Press **↑/↓** to select "Setup", and then press **ENTER**.
 - ③ Press **↑/↓** to select "Auto Installation", and then press **ENTER**.
 - The password entry screen appears. Enter your 4-digit password using buttons **0 – 9**.
- If no channel is found, check the antenna connections, and then retry Auto Installation.

Using Auto Search

Use Auto Search when you just want TV channels to be automatically searched and set up.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Setup", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Program Setup", and then press **ENTER**.
 - The password entry screen appears. Enter your 4-digit password using buttons **0 - 9**.
- 4 Press \uparrow/\downarrow to select "Auto Search", and then press **ENTER**.
- 5 Press \uparrow/\downarrow to select "Country", and then press \leftarrow/\rightarrow to select your country.



- 6 Press \uparrow/\downarrow to select "Start", and then press **ENTER**.
 - Channel search automatically starts.
 - To quit channel search in progress, press **RETURN**.
- 7 Press **HOME MENU** to exit the menu.

NOTE

- If no channel is found, check the antenna connections, and then retry Auto Search.

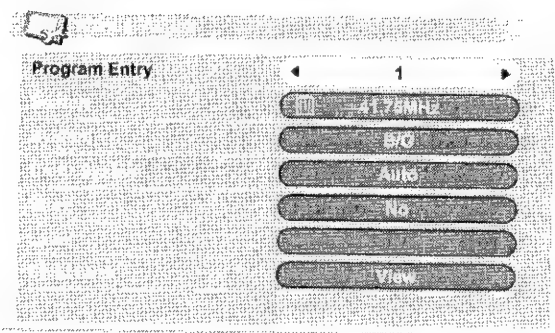
Setting up TV channels manually

This section describes how to set up TV channels manually.

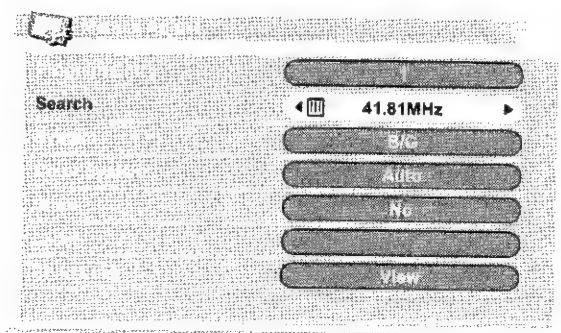
Using Manual Adjust

Use Manual Adjust to set up TV channels manually.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Setup", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Program Setup", and then press **ENTER**.
 - The password entry screen appears. Enter your 4-digit password using buttons **0 - 9**.
- 4 Press \uparrow/\downarrow to select "Manual Adjust", and then press **ENTER**.
- 5 Press \uparrow/\downarrow to select "Program Entry", and then press \leftarrow/\rightarrow to select a program number.
 - You can select 1 through 99.

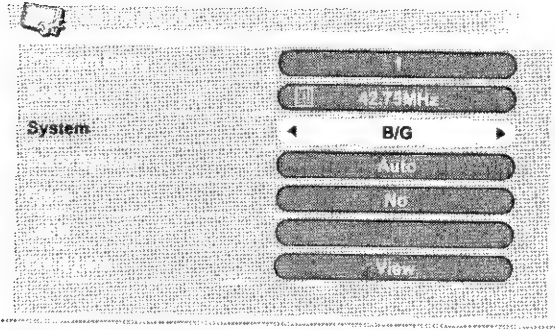


- 6 Press \uparrow/\downarrow to select "Search", and then enter a frequency using buttons **0 - 9** and **ENTER**.
 - You can also press \leftarrow/\rightarrow to enter a frequency.



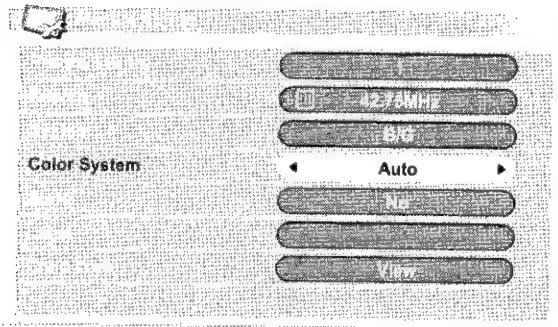
- 7 Press \uparrow/\downarrow to select "System", and then press \leftarrow/\rightarrow to select a sound system.

- You can select from among "B/G", "D/K", "I", "M", and "N".

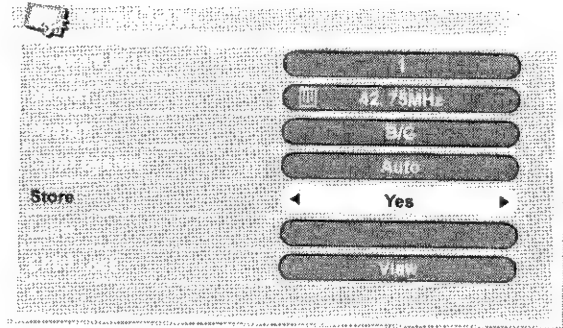


- 8 Press \uparrow/\downarrow to select "Color System", and then press \leftarrow/\rightarrow to select a color system.

- You can select from among "Auto", "PAL", "NTSC", "SECAM", "PAL-M", "PAL-N", and "4.43NTSC".



- 9 Press \uparrow/\downarrow to select "Store", and then press \leftarrow/\rightarrow to select "Yes".



- With "Yes" selected, you can select the channel using **P+ / P-**. With "No" selected, you cannot select the channel using **P+ / P-**.
- To set up for another channel, repeat steps 5 to 9.

- 10 Press **HOME MENU** to exit the menu.

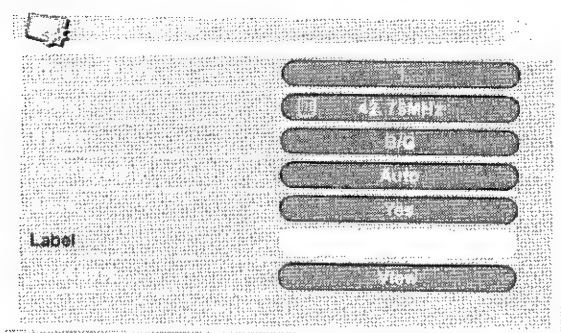
NOTE

- Manual Adjust also allows you to make selections for "Label", and "Child Lock". See "Labeling TV channels", and "Setting Child Lock".

Labeling TV channels

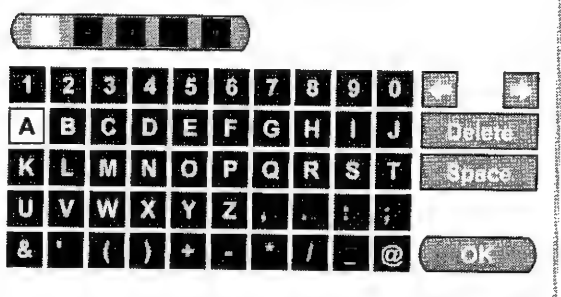
You can name TV channels that you have set up, using up to five characters. This may help you easily identify the channels during selections.

- Follow steps 1 to 4 provided for using Manual Adjust.
After selecting a channel for label entry (using Program Entry), do the followings steps.
- Press \uparrow/\downarrow to select "Label", and then press **ENTER**.



- The name entry screen appears.

- Press \uparrow/\downarrow or \leftarrow/\rightarrow to select the first character, and then press **ENTER**.



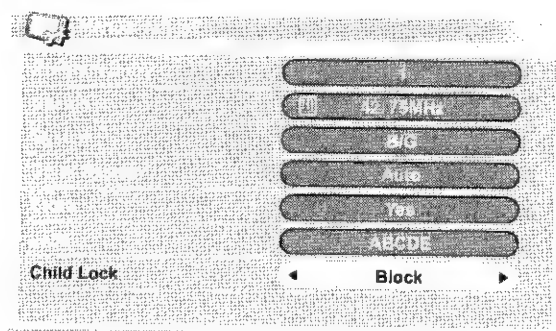
- The cursor moves to the second character.

- Repeat step 3 to enter up to five characters.
 - To correct entered characters, select \leftarrow or \rightarrow on the screen, and then press **ENTER**. The cursor moves to the proceeding or subsequent character.
 - To delete the current character, select **Delete** on the screen, and then press **ENTER**.
 - To put a space for the current character, select **Space** on the screen, and then press **ENTER**.
- To complete the name entry, press \uparrow/\downarrow or \leftarrow/\rightarrow to select **OK** on the screen, and then press **ENTER**.
- Press **HOME MENU** to exit the menu.

Setting Child Lock

Child Lock inhibits selected TV channels from being tuned and watched.

- Follow steps 1 to 4 provided for using Manual Adjust.
After selecting a channel for label entry (using Program Entry), do the followings steps.
- Press \uparrow/\downarrow to select "Child Lock", and then press \leftarrow/\rightarrow to select "Block".



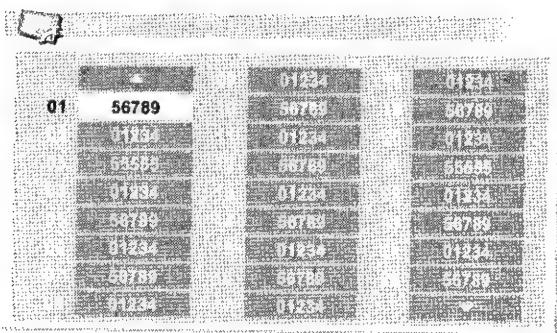
- The selection is switched between "View" and "Block".

- Press **HOME MENU** to exit the menu.

Sorting preset TV channels

Use the following procedure to change the sequence of the preset TV programs.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Setup", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Program Setup", and then press **ENTER**.
 - The password entry screen appears. Enter your 4-digit password using buttons **0 – 9**.
- 4 Press \uparrow/\downarrow to select "Sort", and then press **ENTER**.



- The Sort screen appears.

- 5 Press \uparrow/\downarrow or \leftarrow/\rightarrow to select a channel to be shifted, and then press **ENTER**.
- 6 Press \uparrow/\downarrow or \leftarrow/\rightarrow to select a new location, and then press **ENTER**.
 - Sorting is executed.
- 7 Press **HOME MENU** to exit the menu.

NOTE

- To change a page on the Sort screen in step 6, select \uparrow/\downarrow on the screen with \uparrow/\downarrow to select a page, and then press **ENTER**.

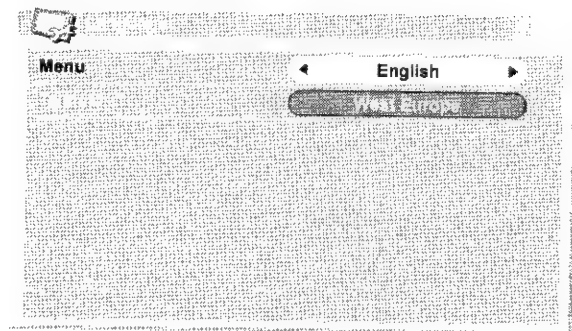
Language setting

You can select the language to be used for on-screen display such as menus and instructions, from among five languages; English, Spanish, Portuguese, Traditional chinese and Simplified chinese.

For the language to be used in the TELETEXT mode, you can also select from among West Europe, East Europe, Greece/Turkey, Russia, and Arabia .

To select a language for on-screen display

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Setup", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Language", and then press **ENTER**.
- 4 Press \uparrow/\downarrow to select "Menu", and then press \leftarrow/\rightarrow to select a language.

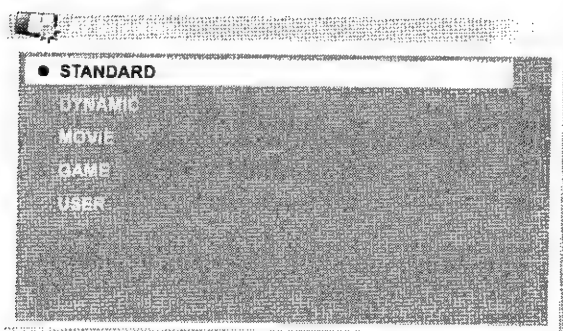


- 5 Press \uparrow/\downarrow to select "Teletext", and then press \leftarrow/\rightarrow to select a language.
- 6 Press **HOME MENU** to exit the menu.

AV Selection

AV selection gives you five viewing options to choose from to best match the Plasma Display System environment, which can vary due to factors like room-brightness, type of program watched or the type of image input from external equipment.

- 1 Press **HOME MENU**.
- 2 Press **▲/▼** to select "Picture", and then press **ENTER**.
- 3 Press **▲/▼** to select "AV Selection", and then press **ENTER**.
- 4 Press **▲/▼** to select the desired option, and then press **ENTER**.



For AV source

Item	Description
STANDARD	For a highly defined image in a normally bright room
DYNAMIC	For a very sharp image with the maximum contrast
MOVIE	For a movie
GAME	Lowers image brightness for easier viewing
USER	Allows the user to customize settings as desired. You can set the mode for each input source.

For PC source

Item	Description
STANDARD	For a highly defined image in a normally bright room
USER	Allows the user to customize settings as desired. You can set the mode for each input source.

- 5 Press **HOME MENU** to exit the menu.



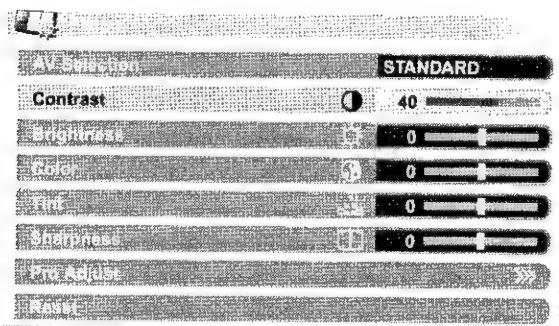
NOTE

- If you have selected "DYNAMIC", you cannot select "Contrast", "Brightness", "Color", "Tint", "Sharpness", and "Pro Adjust"; these menu items are dimmed.

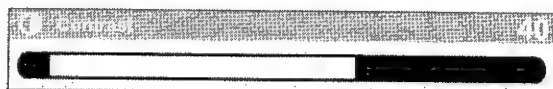
Picture adjustments

Adjust the picture to your preference for the chosen AV Selection option (except DYNAMIC).

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Picture", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select an item to be adjusted, and then press **ENTER**.



- 4 Press \leftarrow/\rightarrow to select the desired level.



- When an adjustment screen is in display, you can also change an item to be adjusted, by pressing \uparrow/\downarrow .

- 5 Press **HOME MENU** to exit the menu.

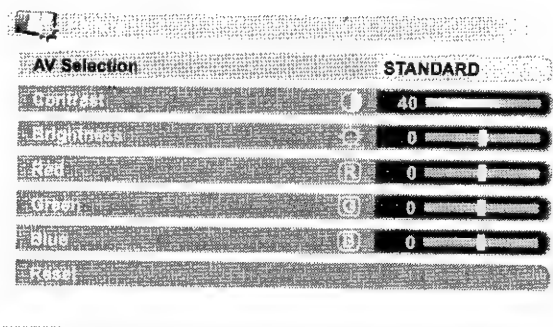
For AV source

Item	\leftarrow button	\rightarrow button
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Color	For less color intensity	For more color intensity
Tint	Skin tones become purplish	Skin tones become greenish
Sharpness	For less sharpness	For more sharpness

For PC source

Item	\leftarrow button	\rightarrow button
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Red	For weaker red	For stronger red
Green	For weaker green	For stronger green
Blue	For weaker blue	For stronger blue

For PC source, the following screen appears:



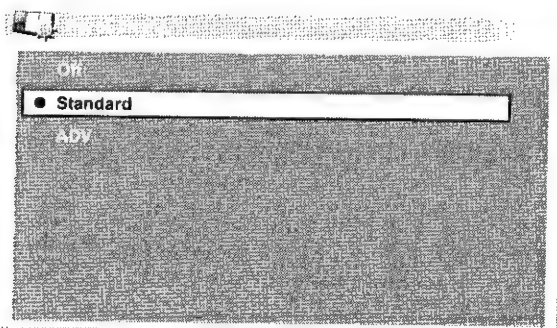
NOTE

- Select "Pro Adjust", and then press **ENTER** to make settings for "PureCinema", "Color Temp", "MPEG NR", "DNR", "CTI", "DRE", and "Color Management". See pages 37 to 40.
- To restore the factory defaults for all the items, press \uparrow/\downarrow to select "Reset" in step 3, and then press **ENTER**. A confirmation screen appears. Press \uparrow/\downarrow to select "Yes", and then press **ENTER**.

PureCinema

Automatically detects a film-based source (originally encoded at 24 frames/second), analyses it, then recreates each still film frame for high-definition picture quality.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Picture", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Pro Adjust", and then press **ENTER**.
- 4 Press \uparrow/\downarrow to select "PureCinema", and then press **ENTER**.
- 5 Press \uparrow/\downarrow to select the desired parameter, and then press **ENTER**.



Item	Description
Off	Deactivates the PureCinema.
Standard	Produces smooth and vivid moving images (film specific) by automatically detecting recorded image information when displaying DVD or high-definition images (e.g., movies) having 24 frames per second.
ADV	Produces smooth and quality moving images (as shown on theater screens) by converting to 72 Hz when displaying DVD images (e.g., movies) having 24 frames per second.

- 6 Press **HOME MENU** to exit the menu.

NOTE

- Not all parameters can be selected for some types of input signals.

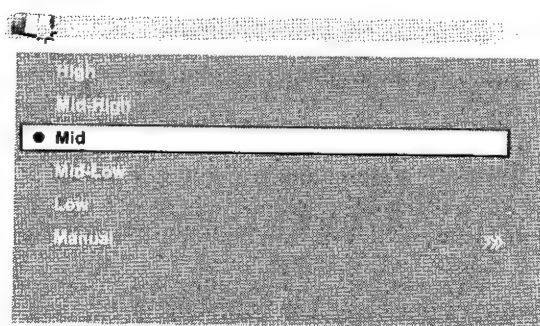
Example 1: "ADV" cannot be selected when PAL or SECAM signals are being input.

Example 2: "Standard" cannot be selected when 480p or 720p signals are being input.

Color temperature

Adjust the color temperature to suit whitish tone.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Picture", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Pro Adjust", and then press **ENTER**.
- 4 Press \uparrow/\downarrow to select "Color Temp", and then press **ENTER**.
- 5 Press \uparrow/\downarrow to select the desired level, and then press **ENTER**.



Item	Description
High	White with bluish tone
Mid-High	Intermediate tone between High and Mid
Mid	Natural tone
Mid-Low	Intermediate tone between Mid and Low
Low	White with reddish tone
Manual	Color temperature adjusted to your preference

- 6 Press **HOME MENU** to exit the menu.

NOTE

You can manually adjust the color temperature, using the following procedure:

- ① Select "Manual" in step 5 above, and then press and hold **ENTER** for more than three seconds to display the manual adjustment screen.
- ② Press **↑/↓** to select an item to be adjusted, and then press **ENTER**.
- ③ Press **←/→** to select the desired level, and then press **ENTER**.

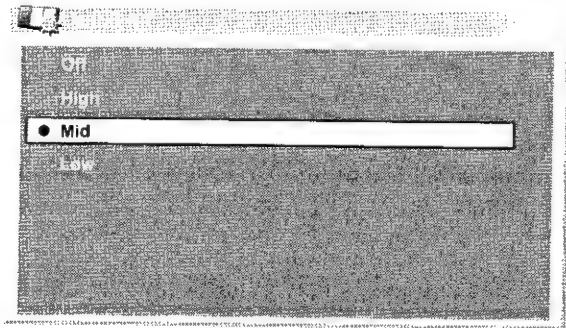
Item		← button	→ button
R High	Fine adjustment for bright portions	For weaker red	For stronger red
G High		For weaker green	For stronger green
B High		For weaker blue	For stronger blue
R Low	Fine adjustment for dark portions	For weaker red	For stronger red
G Low		For weaker green	For stronger green
B Low		For weaker blue	For stronger blue

- To perform adjustment for another item, press **RETURN**, and then repeat steps ② and ③.
 - You may press **↑/↓** to immediately change an item to be adjusted.
- ④ Press **HOME MENU** to exit the menu.

MPEG NR

This eliminates mosquito noise from video images when, for example, a DVD is played, resulting in noise-free images.

- 1 Press **HOME MENU**.
- 2 Press **↑/↓** to select "Picture", and then press **ENTER**.
- 3 Press **↑/↓** to select "Pro Adjust", and then press **ENTER**.
- 4 Press **↑/↓** to select "MPEG NR", and then press **ENTER**.
- 5 Press **↑/↓** to select the desired level, and then press **ENTER**.



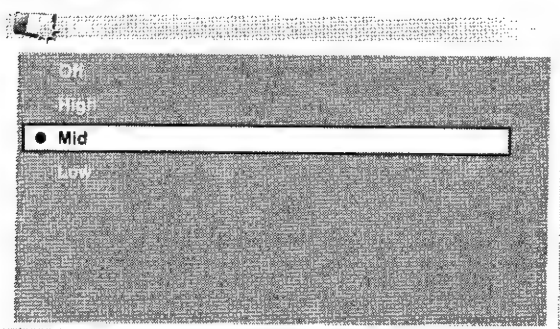
Item	Description
Off	Deactivates the MPEG NR.
High	Enhanced MPEG NR
Mid	Standard MPEG NR
Low	Moderate MPEG NR

- 6 Press **HOME MENU** to exit the menu.

DNR

Select the DNR (Digital Noise Reduction) level to eliminate video noise for a clean crisp image.

- 1 Press **HOME MENU**.
- 2 Press **↑/↓** to select "Picture", and then press **ENTER**.
- 3 Press **↑/↓** to select "Pro Adjust", and then press **ENTER**.
- 4 Press **↑/↓** to select "DNR", and then press **ENTER**.
- 5 Press **↑/↓** to select the desired level, and then press **ENTER**.



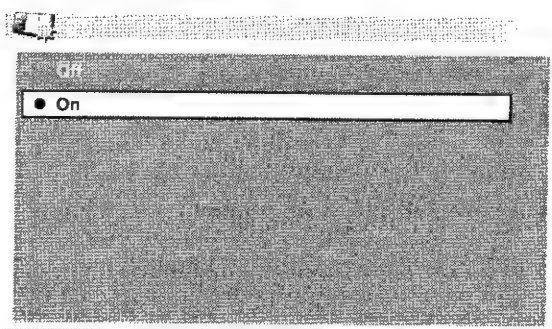
Item	Description
Off	Deactivates the DNR.
High	Enhanced DNR
Mid	Standard DNR
Low	Moderate DNR

- 6 Press **HOME MENU** to exit the menu.

CTI

Use the CTI (Color Transient Improvement) to make images have clearer color contours.

- 1 Press **HOME MENU**.
- 2 Press **↑/↓** to select "Picture", and then press **ENTER**.
- 3 Press **↑/↓** to select "Pro Adjust", and then press **ENTER**.
- 4 Press **↑/↓** to select "CTI", and then press **ENTER**.
- 5 Press **↑/↓** to select the desired parameter, and then press **ENTER**.



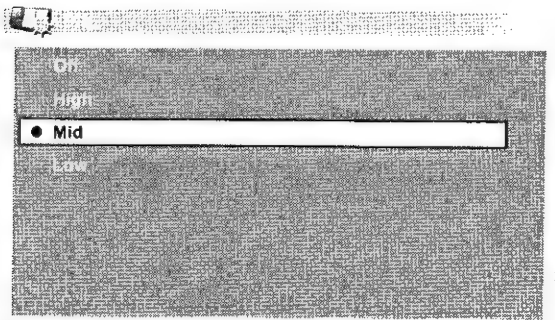
Item	Description
Off	Deactivates the CTI.
On	Activates the CTI.

- 6 Press **HOME MENU** to exit the menu.

DRE

Use the DRE (Dynamic Range Expander) to adjust dark and bright portions on images so that the contrast between brightness and darkness becomes clearer.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Picture", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Pro Adjust", and then press **ENTER**.
- 4 Press \uparrow/\downarrow to select "DRE", and then press **ENTER**.
- 5 Press \uparrow/\downarrow to select the desired level, and then press **ENTER**.



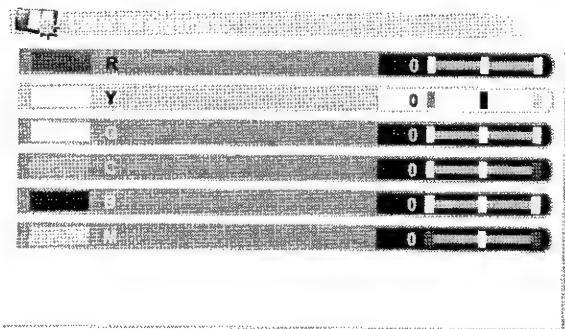
Item	Description
Off	Deactivates the DRE.
High	Enhanced DRE
Mid	Standard DRE
Low	Moderate DRE

- 6 Press **HOME MENU** to exit the menu.

Color Management

Perform fine hue adjustment for each basic color.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Picture", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Pro Adjust", and then press **ENTER**.
- 4 Press \uparrow/\downarrow to select "Color Management", and then press **ENTER**.
- 5 Press \uparrow/\downarrow to select an item to be adjusted, and then press **ENTER**.



- 6 Press \leftarrow/\rightarrow to select the desired level.

Item	\leftarrow button	\rightarrow button
R (Red)	Closer to magenta	Closer to yellow
Y (Yellow)	Closer to red	Closer to green
G (Green)	Closer to yellow	Closer to cyan
C (Cyan)	Closer to green	Closer to blue
B (Blue)	Closer to cyan	Closer to magenta
M (Magenta)	Closer to blue	Closer to red

- To perform adjustment for another item, press **RETURN**, and then repeat steps 5 and 6.
- You may press \uparrow/\downarrow to immediately change an item to be adjusted.

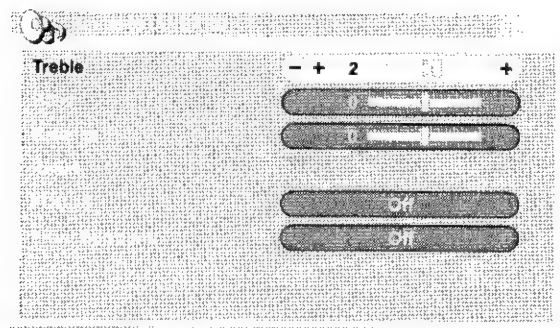
- 7 Press **HOME MENU** to exit the menu.

Sound adjustments

You can adjust the sound quality to your preference with the following settings.

Adjust the sound to your preference for the chosen AV Selection option. See page 35.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Sound", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select an item to be adjusted.
- 4 Press \leftarrow/\rightarrow to select the desired level.



Item	\leftarrow button	\rightarrow button
Treble	For weaker treble	For stronger treble
Bass	For weaker bass	For stronger bass
Balance	Decreases audio from the right speaker	Decreases audio from the left speaker

- 5 Press **HOME MENU** to exit the menu.

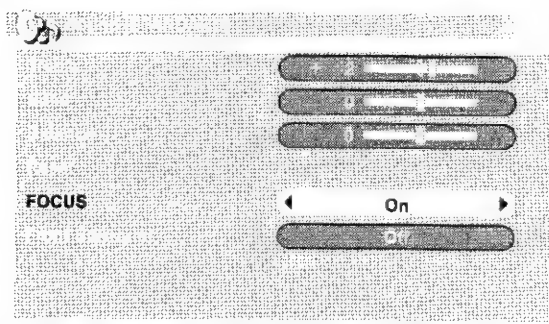
NOTE

- To restore the factory defaults for all the items, press \uparrow/\downarrow to select "Reset" in step 3, and then press **ENTER**. A confirmation screen appears. Press \uparrow/\downarrow to select "Yes", and then press **ENTER**.
- You cannot adjust the sound quality for listening with phones.
- If you perform sound adjustments with phones connected, the new settings will become effective for sound from the speakers after the phones are disconnected.

FOCUS

This shifts the sound coming direction (sound images) upward and produces clear sound contours.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Sound", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "FOCUS", and then press \leftarrow/\rightarrow to select the desired parameter.



Item	Description
Off (factory default)	Deactivates the FOCUS.
On	Activates the FOCUS.

- 4 Press **HOME MENU** to exit the menu.

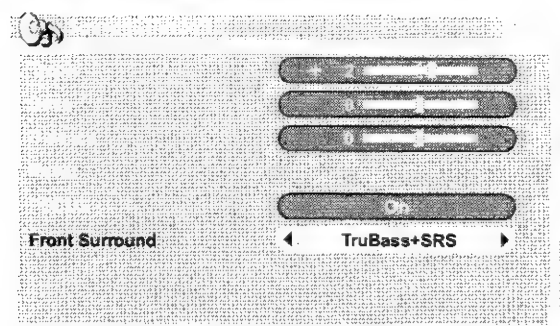
NOTE

- The effect of this function differs depending on signals.
- You cannot set up the sound field for listening with phones.
- If you set up the sound field with phones connected, the new setting will become effective for sound from the speakers after the phones are disconnected.

Front Surround

This provides three-dimensional sound effects and/or deep, rich bass.

- 1 Press **HOME MENU**.
- 2 Press **↑/↓** to select "Sound", and then press **ENTER**.
- 3 Press **↑/↓** to select "Front Surround", and then press **←/→** to select the desired parameter.



Item	Description
Off	Deactivates both the SRS and TruBass.
SRS	Reproduces highly effective three-dimensional sound.
TruBass (factory default)	Provides deep, rich bass using a new technology.
TruBass + SRS	Provides both TruBass and SRS effects.

- 4 Press **HOME MENU** to exit the menu.



NOTE

- **SRS WOW** (WOW) designates a status where the FOCUS is on and TruBass + SRS has been selected for Front Surround.
- **SRS WOW** is a trademark of SRS Labs, Inc.
- WOW technology is incorporated under license from SRS Labs, Inc.
- The effect of this function differs depending on signals.
- You cannot set up the sound field for listening with phones.
- If you set up the sound field with phones connected, the new setting will become effective for sound from the speakers after the phones are disconnected.

Power Control

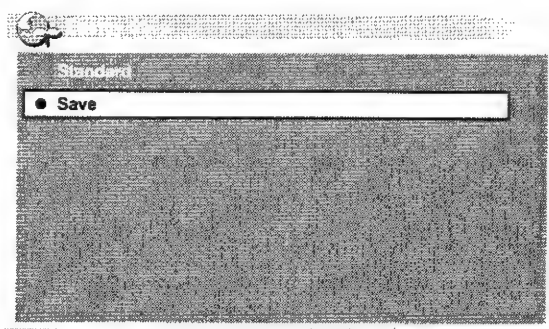
Power Control provides convenient functions for power saving.

Power Control for AV source

Energy Save

Power consumption is saved by decreasing picture brightness.

- 1 Press **HOME MENU**.
- 2 Press **↑/↓** to select "Power Control", and then press **ENTER**.
- 3 Press **↑/↓** to select "Energy Save", and then press **ENTER**.
- 4 Press **↑/↓** to select "Save", and then press **ENTER**.



Item	Description
Standard (factory default)	Does not decrease picture brightness.
Save	Decreases picture brightness to save power.

- 5 Press **HOME MENU** to exit the menu.



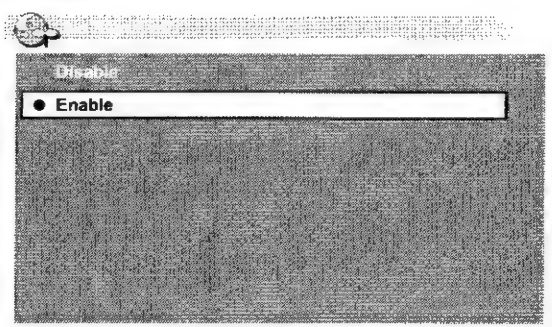
NOTE

- You can also select this function using the Home menu when the input source is a PC.

No Signal off

The system will be automatically placed into the standby mode if no signal is received for 15 minutes.

- 1 Press **HOME MENU**.
- 2 Press **▲/▼** to select "Power Control", and then press **ENTER**.
- 3 Press **▲/▼** to select "No Signal off", and then press **ENTER**.
- 4 Press **▲/▼** to select "Enable", and then press **ENTER**.



Item	Description
Disable (factory default)	Does not place the system into the standby mode.
Enable	Places the system into the standby mode if no signal is received for 15 minutes.

- 5 Press **HOME MENU** to exit the menu.

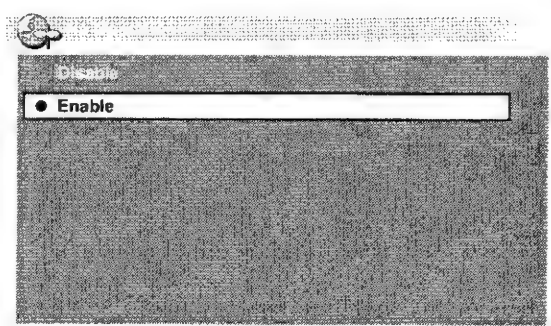
NOTE

- Five minutes before the system is placed into the standby mode, a message appears every minute.
- The system may not be placed into the standby mode when noise signals are present at the Media Receiver after a TV program finishes.

No Operation off

The system will be automatically placed into the standby mode when no operation is performed for three hours.

- 1 Press **HOME MENU**.
- 2 Press **▲/▼** to select "Power Control", and then press **ENTER**.
- 3 Press **▲/▼** to select "No Operation off", and then press **ENTER**.
- 4 Press **▲/▼** to select "Enable", and then press **ENTER**.



Item	Description
Disable (factory default)	Does not place the system into the standby mode.
Enable	Places the system into the standby mode if no operation is performed for three hours.

- 5 Press **HOME MENU** to exit the menu.

NOTE

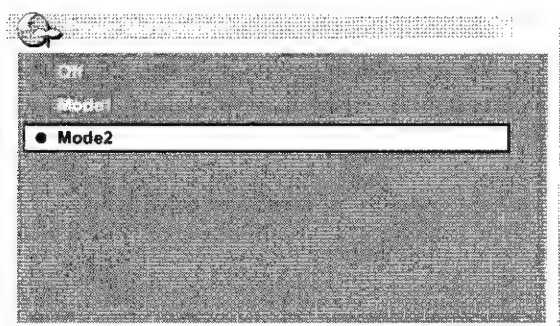
- Five minutes before the system is placed into the standby mode, a message appears every minute.

Power Control for PC source

Power Management

The system will be automatically placed into the standby mode when no signal is received from the personal computer.

- 1 Press **HOME MENU**.
- 2 Press **▲/▼** to select "Power Control", and then press **ENTER**.
- 3 Press **▲/▼** to select "Power Management", and then press **ENTER**.
- 4 Press **▲/▼** to select "Mode1" or "Mode2", and then press **ENTER**.



Item	Description
Off (factory default)	No power management
Mode1	<ul style="list-style-type: none"> Places the system into the standby mode when no signal is received from the personal computer for eight minutes. Even when you start using the computer and a signal is received again, the system stays off. The system is switched on again by pressing STANDBY/ON on the Plasma Display or ⏻ on the remote control unit. (See page 23.)
Mode2	<ul style="list-style-type: none"> Places the system into the standby mode when no signal is received from the personal computer for eight seconds. When you start using the computer and a signal is input again, the system is switched on. The system is switched on again by pressing STANDBY/ON on the Plasma Display or ⏻ on the remote control unit. (See page 23.)

- 5 Press **HOME MENU** to exit the menu.

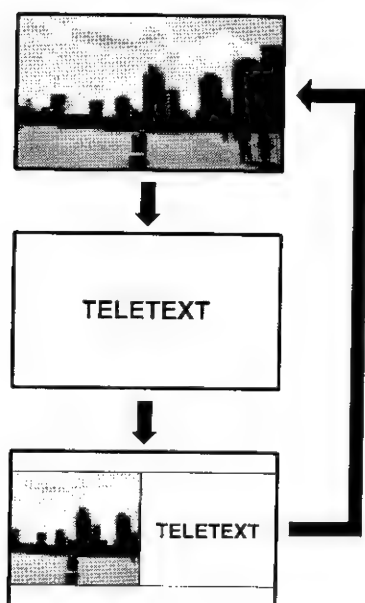
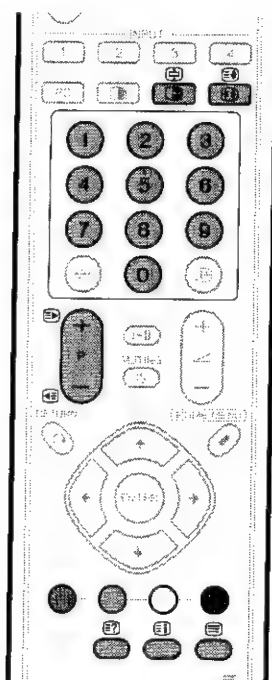


NOTE

- The system is also switched on again by pressing **0-9** on the remote control unit; however, the system exits the PC mode. (See page 23.)

What is Teletext?

Teletext broadcasts pages of information and entertainment to specially equipped television sets. Your Plasma Display System receives Teletext signals broadcast by TV networks, and decodes them into graphical format for viewing. News, weather and sports information, stock exchange prices and program previews are among many services available.



Operating the Teletext basics

Turning on and off Teletext

- 1 Select a TV channel or external input source providing a Teletext program.
- 2 Press to display the Teletext (full screen).
- 3 Press again to display the Teletext on the right screen and normal image on the left screen.
 - Each time you press , the screen switches as shown to the left.
 - If you select a program with no Teletext signal, "Cannot display Teletext." appears.

Selecting and operating Teletext pages

Use the following remote control buttons to select and operate Teletext pages.

Color (RED/GREEN/YELLOW/BLUE):

You can select a group or block of pages displayed in the colored brackets at the bottom of the screen by pressing the corresponding **color (RED/GREEN/YELLOW/BLUE)** on the remote control unit.

0 - 9:

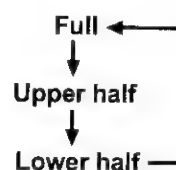
Directly select any page from 100 to 899 by using **0 - 9**.

:

Selects the next or previous page.

:

Each time you press , the teletext image switches as shown below.



:

To display hidden information such as an answer to a quiz, press .

- Press again to hide the information.

:

To stop updating Teletext pages, press .

- Press again to release the hold mode.

:

Displays an Index page for the CEEFAX/FLOF format.
Displays a TOP Over View page for the TOP format.

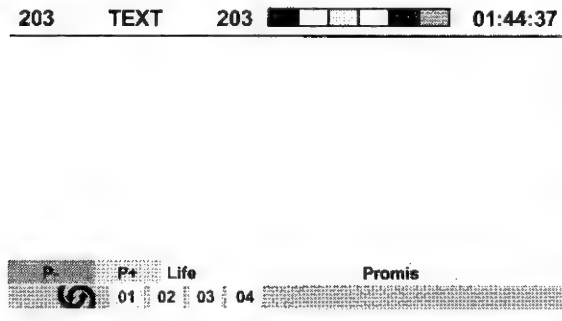
NOTE

- Before displaying the Teletext, return the screen to the single-screen mode.

Displaying subpages

You can display several subpages as they are transmitted.

Subpage screen



- 1 Press to display Teletext.
 - If you open a page containing subpages, the subpages are automatically displayed in sequence.
- 2 To quit automatic subpage change, press .
 - You can then manually change subpages by pressing .

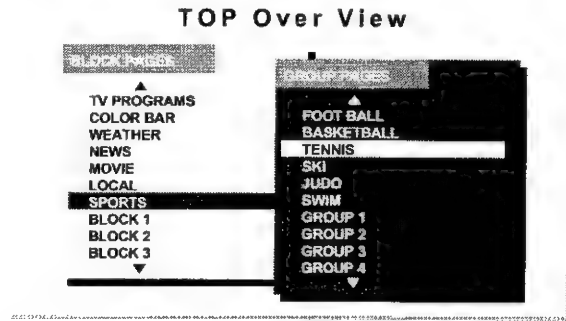
NOTE

- Pressing causes the page to be changed and the subpage screen to disappear.
- Pressing stops automatic subpage change and performs its respective button function.

Displaying TOP Over View

When receiving TOP Teletext, you can read a TOP text overview.

TOP Over View screen



- 1 Press to display Teletext.
- 2 While receiving TOP Teletext, press to display TOP Over View.
- 3 Press and to select the desired block or group pages, and then press **ENTER**.

NOTE

- When the TOP Over View screen is in display, no other buttons are available than , , **I-II**, , and .

You can connect many types of external equipment to your Plasma Display System, like a VCR, DVD player, personal computer, game console, and camcorder. To view images coming from external equipment, select the input source using the **INPUT** buttons on the remote control or the **INPUT** button on the Plasma Display.

CAUTION

- To protect all equipment, always turn off the Media Receiver before connecting to a VCR, DVD player, personal computer, game console, camcorder, or other external equipment.

NOTE

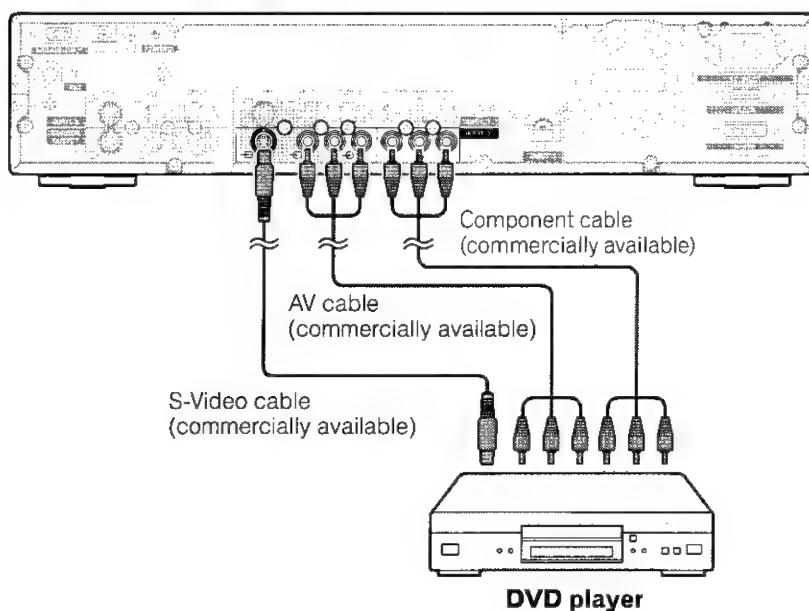
- Refer to the relevant operation manual (DVD player, personal computer, etc.) carefully before making connections.

Watching a DVD image

Connecting a DVD player

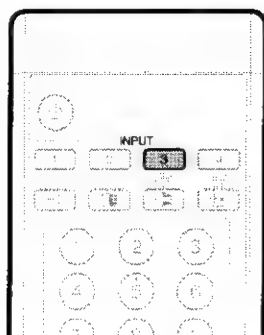
Use the INPUT 3 terminal when connecting to a DVD player and other audiovisual equipment.

Media Receiver (rear view)



Displaying a DVD image

To watch a DVD image, press **INPUT 3** on the remote control unit or press **INPUT** on the Plasma Display to select INPUT3.



NOTE

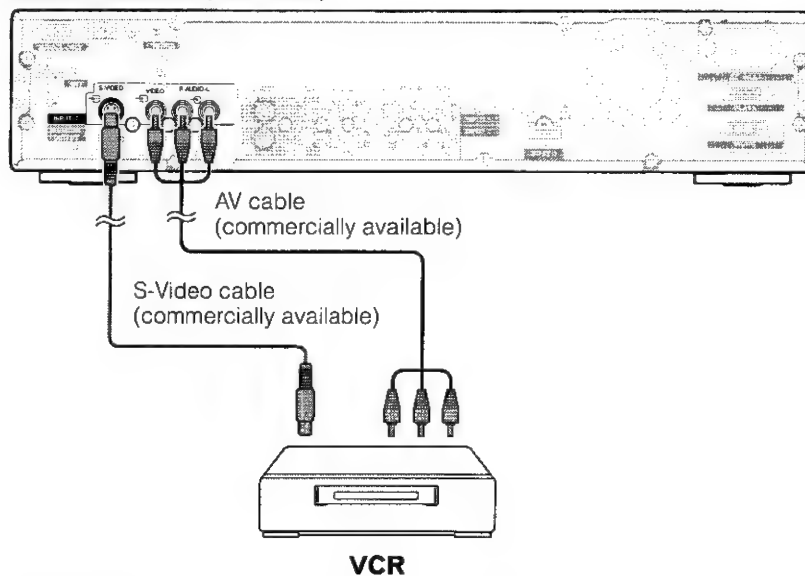
- Refer to your DVD player operation manual for the signal type.
- The INPUT 3 terminal is checked for cable connections in the order where; 1) Component Video, 2) S-Video, 3) Video.
- Connect the external equipment to only terminals that are to actually used.

Watching a VCR image

Connecting a VCR

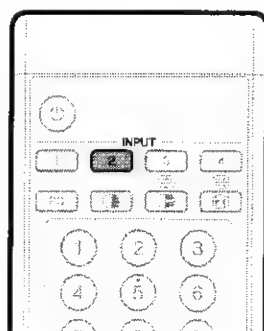
Use the INPUT 2 terminal when connecting a VCR and other audiovisual equipment.

Media Receiver (rear view)



Displaying a VCR image

To watch a VCR image, press **INPUT 2** on the remote control unit or press **INPUT** on the Plasma Display to select INPUT2.



NOTE

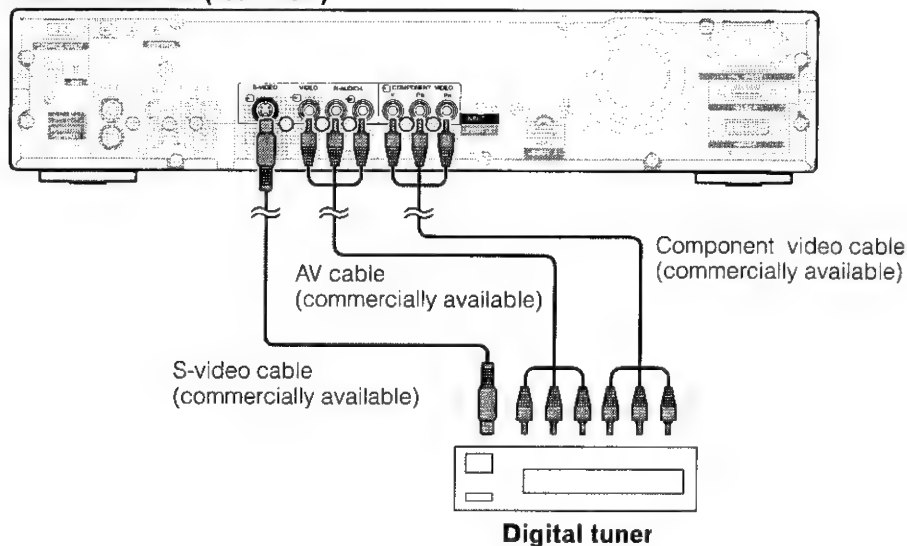
- Refer to your VCR operation manual for the signal type.
- The INPUT 2 terminal is checked for cable connections in the order where; 1) S-Video, 2) Video.
- Connect the external equipment to only terminals that are to actually used.

Watching broadcasts via a digital tuner

Connecting a digital tuner

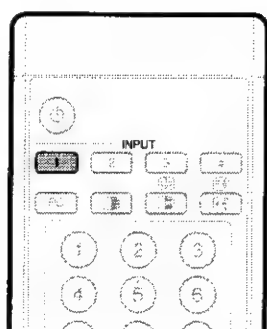
You can use the INPUT 1 terminal when connecting a digital tuner and other audiovisual equipment.

Media Receiver (rear view)



Displaying broadcasts via a digital tuner

To watch a digital tuner image, press **INPUT 1** on the remote control unit or press **INPUT** on the Plasma Display to select INPUT1.



NOTE

- Refer to your digital tuner operation manual for the signal type.
- The INPUT 1 terminal is checked for cable connections in the order where; 1) Component video, 2) S-Video, 3) Video.
- Connect the external equipment to only terminals that are to actually used.

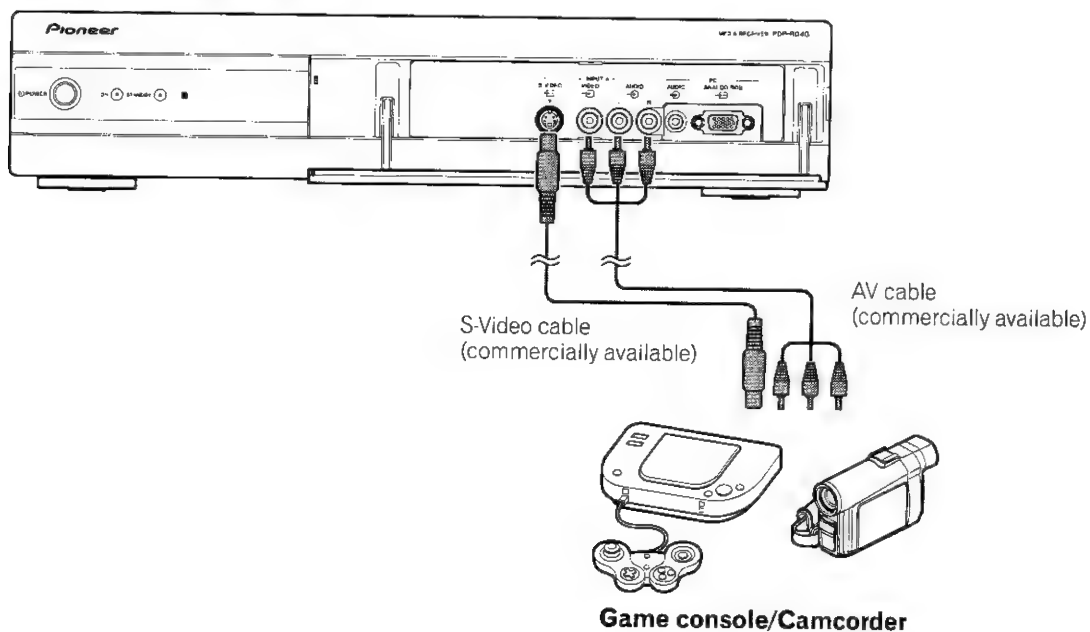
10 Enjoying through External Equipment

Enjoying a game console and watching camcorder images

Connecting a game console or camcorder

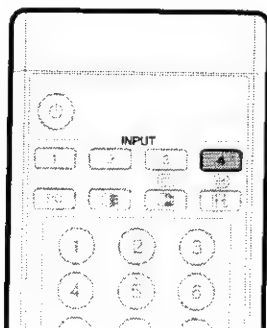
Use the INPUT 4 terminal to connect a game console, camcorder, and other audiovisual equipment.

Media Receiver (front view)



Displaying an image from the game console or camcorder

To watch an image coming from the game console or camcorder, press **INPUT 4** on the remote control unit or press **INPUT** on the Plasma Display to select INPUT4.



NOTE

- The INPUT 4 terminals are checked for cable connections in the order where; 1) S-Video, 2) Video.
- Connect external equipment to only terminals that are to be actually used.

Watching an image from a personal computer

Connecting a personal computer

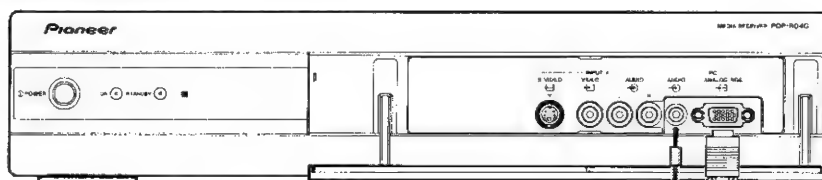
Use the PC terminals to connect a personal computer.



NOTE

- The PC input terminals are DDC1/2B-compatible.

Media Receiver (front view)



ø 3.5 mm stereo mini-plug cable
(commercially available)

RGB cable
(commercially available)

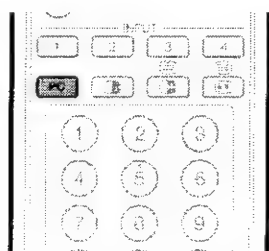


Personal computer

Displaying an image from a personal computer

To watch an image coming from the personal computer, press **PC** on the remote control unit or press **INPUT** on the Plasma Display to select "PC".

When connecting to a personal computer, the correct input signal type is automatically detected. If the personal computer image does not come in clearly, you may need to use Auto Setup menu. See page 56.



NOTE

- The PC terminals cannot be used for audiovisual equipment.

Computer compatibility chart

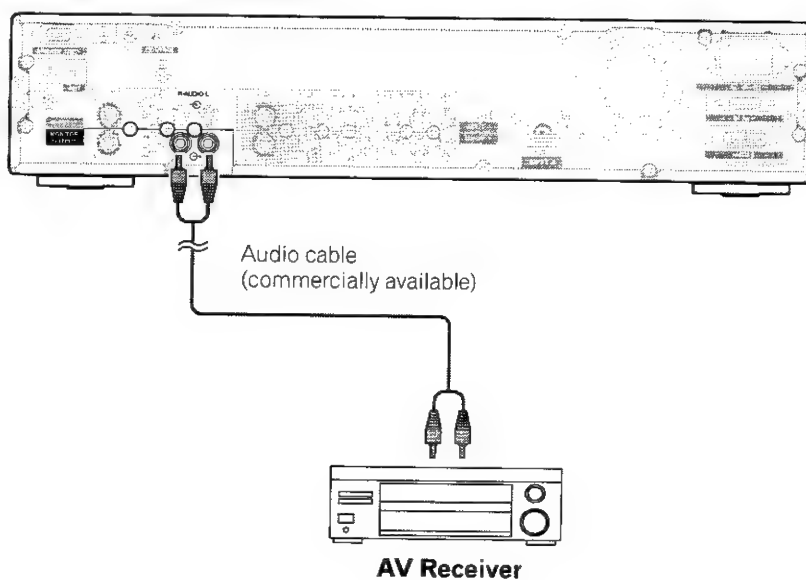
Resolution	Frequency	Remarks
720 × 400	70 Hz	
640 × 480	60 Hz	
	65 Hz	Macintosh 13" (67 Hz)
	72 Hz	
	75 Hz	
800 × 600	56 Hz	
	60 Hz	
	72 Hz	
	75 Hz	
832 × 624	74.5 Hz	Macintosh 16"
1024 × 768	60 Hz	
	70 Hz	
	75 Hz	Macintosh 19"
1280 × 768	56 Hz	
	60 Hz	
	70 Hz	

Enjoying through audio equipment in connection

Connecting audio equipment

You can enjoy more powerful sound by connecting such audio equipment as an AV receiver.

Media Receiver (rear view)



NOTE

- For details, refer to the operation manual for the audio equipment to be connected.
- Signals are always output to the MONITOR OUTPUT terminal regardless of channels and input.

Using HDMI Input

The INPUT 3 terminals include HDMI terminals to which digital video and audio signals can be input. To use the HDMI terminal, activate the terminal and specify the types of video and audio signals to be received from the connected equipment. For the types of these signals, see the operation manual that came with the connected equipment.

Input signal correlation table

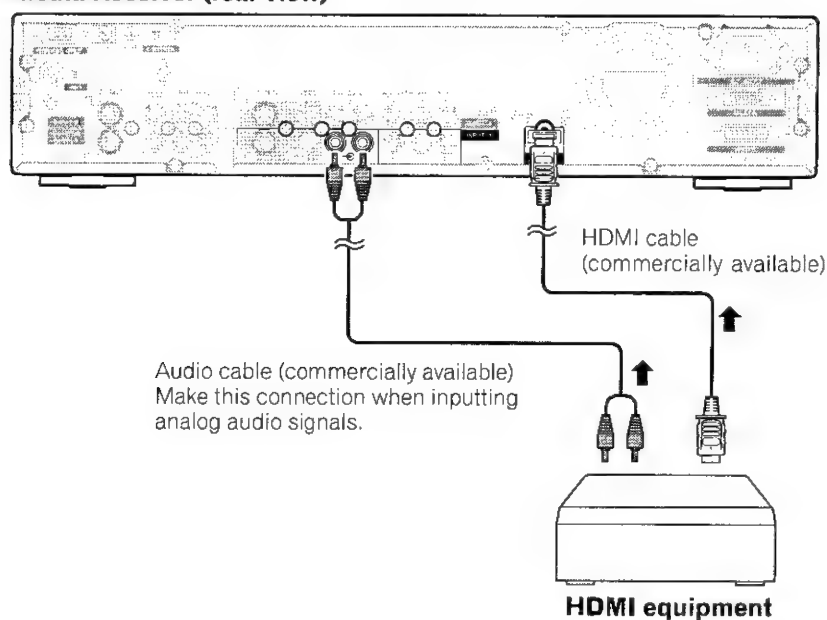
1920*1080i@50Hz
720*576p@50Hz
1280*720p@50Hz
720(1440)*576i@50Hz
1920*1080i@59.94/60Hz
720*480p@59.94/60Hz
1280*720p@59.94/60Hz
720(1440)*480i@59.94/60Hz

NOTE

- PC signals are out of correspondence.

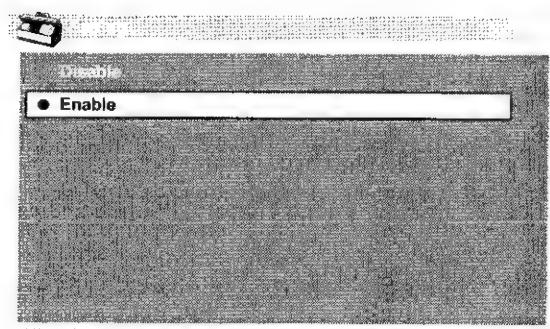
Connecting HDMI equipment

Media Receiver (rear view)



To activate the HDMI terminal:

- 1 Press **HOME MENU**.
- 2 Press **↑/↓** to select "Option", and then press **ENTER**.
- 3 Press **↑/↓** to select "HDMI Input", and then press **ENTER**.
- 4 Press **↑/↓** to select "Setting", and then press **ENTER**.
- 5 Press **↑/↓** to select "Enable", and then press **ENTER**.



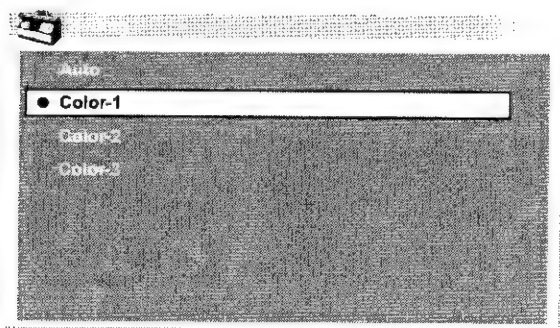
Item	Description
Disable (factory default)	Deactivates the HDMI terminal.
Enable	Activates the HDMI terminal.

- 6 Press **HOME MENU** to exit the menu.

10 Enjoying through External Equipment

To specify the type of digital video signals:

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Option", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "HDMI Input", and then press **ENTER**.
- 4 Press \uparrow/\downarrow to select "Video", and then press **ENTER**.
- 5 Press \uparrow/\downarrow to select the type of digital video signals, and then press **ENTER**.



- If you select "Auto", an attempt will be made to identify the type of digital video signals when digital video signals are received.

Item	Description
Auto (factory default)	Automatically identifies input digital video signals.
Color-1	Sets the format of digital video signals to the Component 4:2:2.
Color-2	Sets the format of digital video signals to the Component 4:4:4.
Color-3	Sets the format of digital video signals to the RGB.

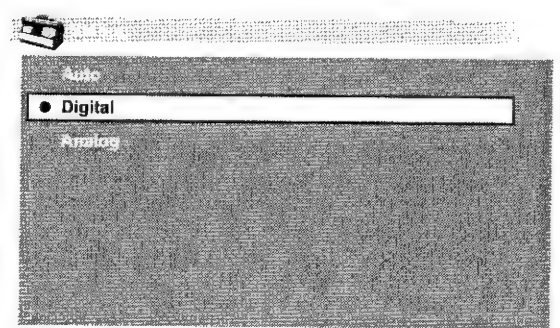
- 6 Press **HOME MENU** to exit the menu.

NOTE

- If you select a parameter other than "Auto", make such a setting that results in natural color.
- If no image appears or images appear in inappropriate colors, specify another digital video signal type.
- For the digital signal types to be specified, check the operation manual that came with the connected equipment.

To specify the type of audio signals:

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Option", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "HDMI Input", and then press **ENTER**.
- 4 Press \uparrow/\downarrow to select "Audio", and then press **ENTER**.
- 5 Press \uparrow/\downarrow to select the type of audio signals, and then press **ENTER**.



- If you select "Auto", an attempt will be made to identify the type of audio signals when audio signals are received.

Item	Description
Auto (factory default)	Automatically identifies input audio signals.
Digital	Accepts digital audio signals.
Analog	Accepts analog audio signals.

- 6 Press **HOME MENU** to exit the menu.

NOTE

- If no sound is output, specify another audio signal type.
- For the signal types to be specified, check the operation manual that came with the connected equipment.
- Depending on the equipment to be connected, you also need to connect analog audio cables.

Connecting control cords

Connect control cords between the Media Receiver and other PIONEER equipment having the **SR** logo. You can then operate the connected equipment by sending commands from its remote control unit to the remote control sensor on the Media Receiver.

After the CONTROL IN terminals have been connected, the remote control sensors on the connected equipment do not accept commands from the remote control units. Face the remote control units to the remote control sensor on the Plasma Display when operating the connected equipment.

NOTE

- Make sure that the power is turned off when making connections.
- Complete all component connections before making control cord connections.

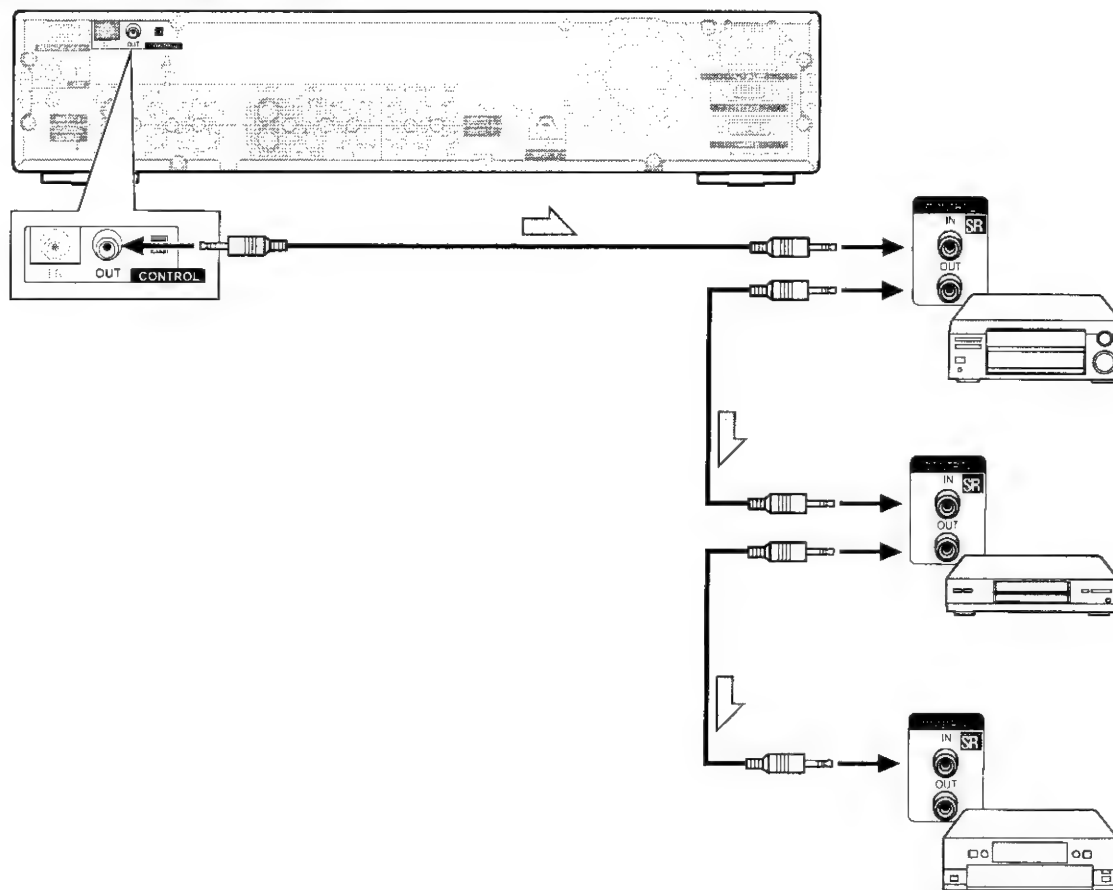
About SR+

The CONTROL OUT terminal on the rear of the Media Receiver supports **SR+** that allows linked operations with a PIONEER AV receiver. **SR+** presents functions such as the input switch linkage operation function and the DSP surround mode display function. For more information, see the user's manual for the PIONEER AV receiver supporting **SR+**.

NOTE

- While in connection through **SR+**, the volume on this system is temporarily minimized.

Media Receiver (rear view)

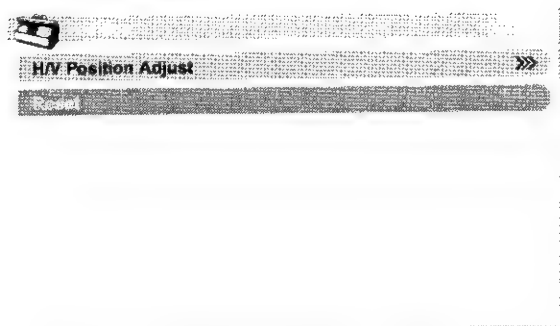


The control cables (commercially available) are monoaural cables with mini plugs (no resistance).

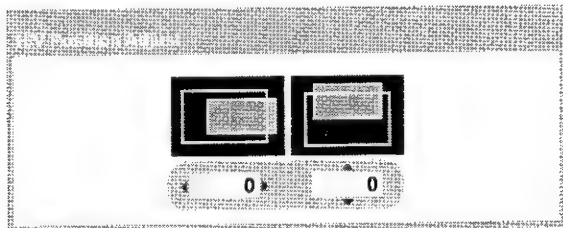
Adjusting image positions (AV mode only)

Adjust the horizontal and vertical positions of images on the Plasma Display.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Option", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Position", and then press **ENTER**.
- 4 Press \uparrow/\downarrow to select "H/V Position Adjust", and then press **ENTER**.



- 5 Press \uparrow/\downarrow to adjust the vertical position or press \leftarrow/\rightarrow to adjust the horizontal position.



- 6 Press **HOME MENU** to exit the menu.

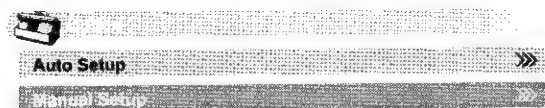
NOTE

- To restore the factory defaults for all the items, press \uparrow/\downarrow to select "Reset" in step 4, and then press **ENTER**. A confirmation screen appears. Press \uparrow/\downarrow to select "Yes", and then press **ENTER**.
- Adjustments are stored separately according to input source.

Adjusting image positions and clock automatically (PC mode only)

Use Auto Setup to automatically adjust positions and clock of images coming from a personal computer.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Option", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Auto Setup", and then press **ENTER**.



- Auto Setup starts.

- 4 Press **HOME MENU** to exit the menu.

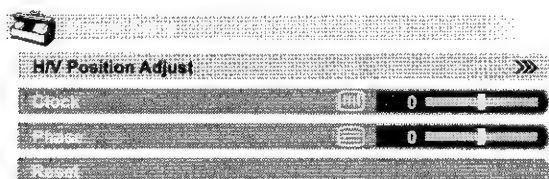
NOTE

- When Auto Setup is finished, "Auto Setup completed." appears.
- Auto Setup may fail with a PC image composed of similar patterns or monochrome. If not successful, change the PC image and try again.
- Be sure to connect the computer to the Media Receiver and switch it on before starting Auto Setup.

Adjusting image positions and clock manually (PC mode only)

Usually you can easily adjust the positions and clock of images using Auto Setup. Use Manual Setup to optimize the positions and clock of images when necessary.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Option", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Manual Setup", and then press **ENTER**.
- 4 Press \uparrow/\downarrow to select the item to be adjusted, and then press **ENTER**.



- 5 Press \leftarrow/\rightarrow (and \uparrow/\downarrow) to perform adjustment.
 - Use \uparrow/\downarrow only when you adjust the vertical position after selecting "H/V Position Adjust".
- 6 Press **HOME MENU** to exit the menu.

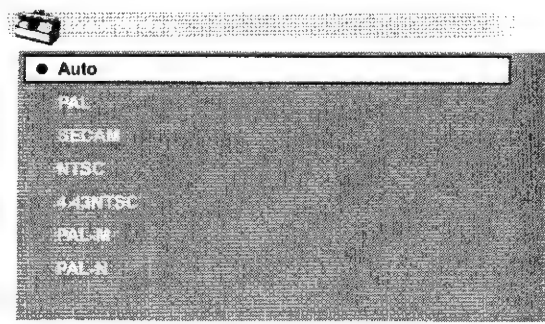
NOTE

- To restore the factory defaults for all the items, press \uparrow/\downarrow to select "Reset" in step 4, and then press **ENTER**. A confirmation screen appears. Press \uparrow/\downarrow to select "Yes", and then press **ENTER**.

Color system setting (AV mode only)

If an image does not appear clearly, select another color system (e.g., PAL, NTSC).

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Option", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Color System", and then press **ENTER**.
- 4 Press \uparrow/\downarrow to select a video signal system, and then press **ENTER**.



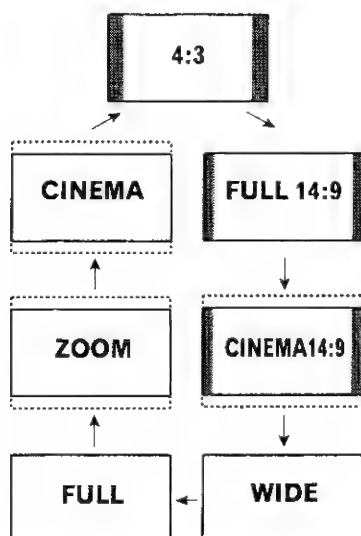
- You can select "Auto", "PAL", "SECAM", "NTSC", "4.43NTSC", "PAL-M", or "PAL-N".
- With "Auto" selected, input signals are automatically identified.

- 5 Press **HOME MENU** to exit the menu.

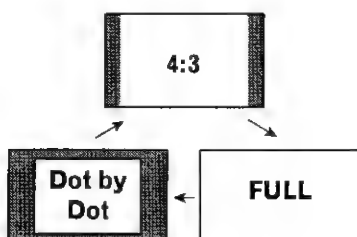
NOTE

- The factory default is "Auto".
- You need to perform color system setting for each of INPUT 1 to 4.
- For color system setting for each channel, see pages 31 and 32.

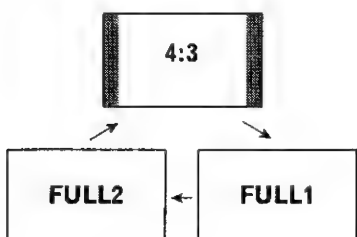
AV mode



PC mode except for XGA signals



PC mode for XGA signals



Select a screen size

Manual Selection

Press **[F4]** to switch among the screen size options selectable for the type of video signals currently received.

- Each time you press **[F4]**, the selection is switched.
- The selectable screen sizes differ depending on the types of input signals.

AV mode

Item	Description
4:3	For 4:3 "standard" pictures. A side mask appears on each side.
FULL 14:9	For 14:9 squeeze pictures. A thin side mask appears on each side.
CINEMA 14:9	For 14:9 letterbox pictures. A thin side mask appears on each side, and you may also see bars on the top and bottom with some programs.
WIDE	In this mode the picture is progressively stretched toward each side of the screen.
FULL	For 16:9 squeeze pictures.
ZOOM	For 16:9 letterbox pictures. Bars may appear on the top and bottom with some programs.
CINEMA	For 14:9 letterbox pictures. Bars may appear on the top and bottom on some programs.

PC mode except for XGA signals

Item	Description
4:3	Fills the screen without altering the input signal aspect ratio.
FULL	Full 16:9 screen display
Dot by Dot	Matches input signal with same number of screen pixels.

PC mode for XGA signals

(Ex. 1024 × 768 input at PDP-504HDG)

Item	Description
4:3	Matches input signal with the same number of screen pixels. Optimized for 1024 × 768 display
FULL1	Full 16:9 screen display Optimized for 1024 × 768 display
FULL2	For wide signal display Use when displaying 1280 × 768 signal resolution.

NOTE

- The specifications given for the PC mode is for the PDP-504HDG. For the PDP-434HDG, the number of panel pixels is different, and thus signal processing and actual viewing conditions will vary slightly.

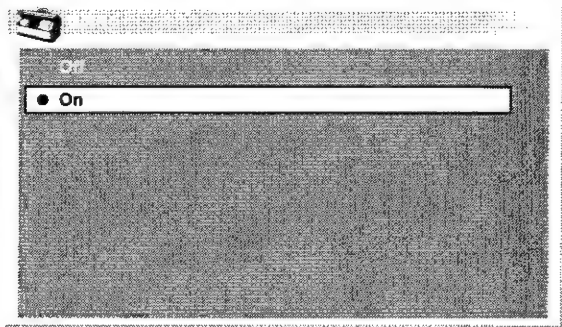
Auto Selection

If you set "WSS" and "4:3 Mode" in the Option menu, the optimum screen mode is automatically chosen for every video signal containing the WSS information.

Wide screen signalling (WSS)
(AV mode only)

WSS allows the system to switch automatically among the different screen formats.

- 1 Press **HOME MENU**.
- 2 Press **↑/↓** to select "Option", and then press **ENTER**.
- 3 Press **↑/↓** to select "WSS", and then press **ENTER**.
- 4 Press **↑/↓** to select "On", and then press **ENTER**.



Item	Description
On	Activates the WSS function.
Off (factory default)	Deactivates the WSS function.

- 5 Press **HOME MENU** to exit the menu.

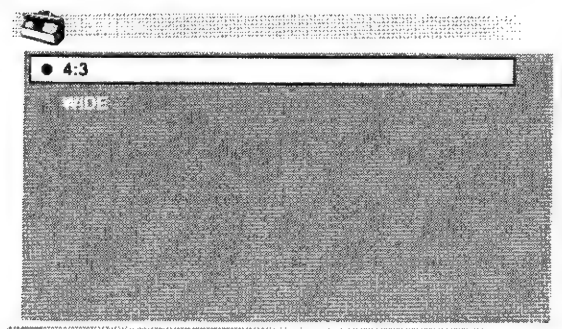
 **NOTE**

- Manually select an appropriate screen size if an image does not automatically switches to a correct screen format.
- When the video signal contains no WSS information, the function will not work even with "On" selected.

Picture aspect ratio (AV mode only)

With the WSS function switched to "On", select the display format for 4:3 aspect ratio signal input.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Option", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "4:3 Mode", and then press **ENTER**.
- 4 Press \uparrow/\downarrow to select "4:3" or "WIDE", and then press **ENTER**.



Item	Description
4:3	Keeps the 4:3 aspect ratio and presents side masks.
WIDE (factory default)	Wide image without side masks.

4:3



WIDE

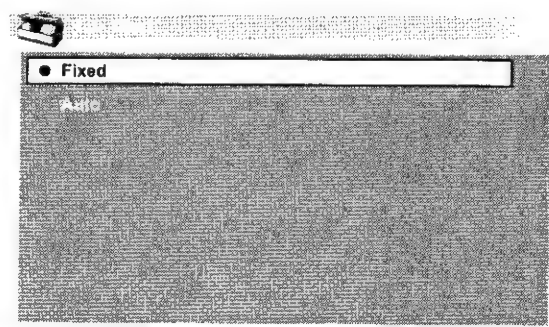


- 5 Press **HOME MENU** to exit the menu.

Changing the brightness at both sides of the screen (Side Mask)

With the 4:3/FULL 14:9/CINEMA 14:9 screen size selected for the AV mode, you can change the brightness of the gray side masks that appear at both sides of the screen.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Option", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Side Mask", and then press **ENTER**.
- 4 Press \uparrow/\downarrow to select the desired parameter, and then press **ENTER**.



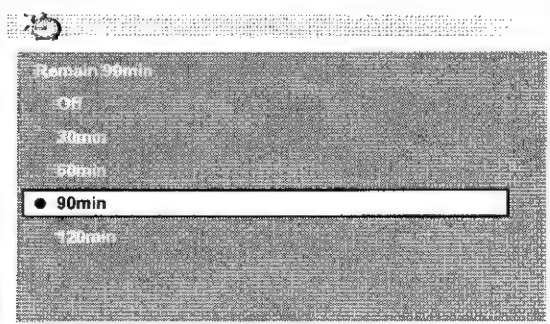
Item	Description
Fixed (factory default)	Always sets the same brightness for the gray side masks.
Auto	Adjusts the brightness of the gray side masks according to the brightness of images.

- 5 Press **HOME MENU** to exit the menu.

Sleep Timer

When the selected time elapses, the Sleep Timer automatically places the system into the standby mode.

- 1 Press **HOME MENU**.
- 2 Press **▲/▼** to select "Sleep Timer", and then press **ENTER**.
- 3 Press **▲/▼** to select the desired time, and then press **ENTER**.



- You can select from among "Off" (cancel), "30 min", "60 min", "90 min", and "120 min".

- 4 Press **HOME MENU** to exit the menu.



NOTE

- Five minutes before the selected time elapses, the remaining time appears every minute.
- To check the remaining time, do steps 1 and 2.

Using a password (AV mode only)

This system provides the Child Lock function for preventing children from watching inappropriate programs. You need to enter a password when watching programs with "Block" specified. Before the system is shipped, "1234" is preset as the factory-default password. You can however, change the password as you want.

When using the Home menu you select "Auto Installation", "Program Setup", or "Password", a screen prompting password entry appears to prevent others from changing the program settings at their choices.

Entering a password

In a case where you select a channel blocked with Child Lock or password entry is requested when attempting to open the menu, enter a password correctly.

- 1 Enter a correct 4-digit password using buttons **0 - 9**.



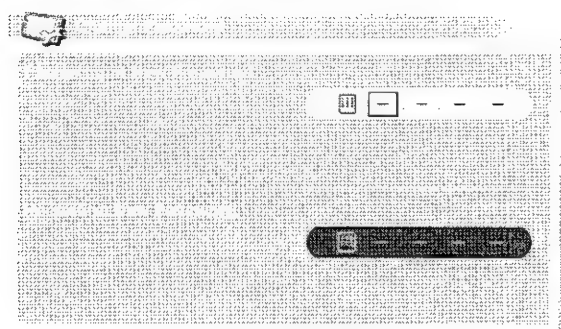
NOTE

- If you fail password entry three times, "Invalid password." appears, and the menu is closed. In order to display the password entry screen again to unlock the password, select the blocked channel or open the menu again.

Changing the password

Use the following procedure to change the password.

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Setup", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Password", and then press **ENTER**.
 - The password entry screen appears. Enter the current 4-digit password using buttons 0 – 9.
- 4 Press \uparrow/\downarrow to select "Change Password", and then press **ENTER**.



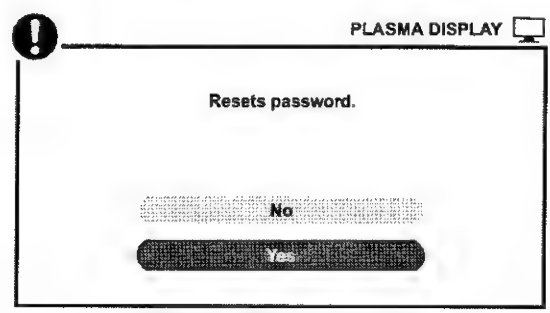
- 5 Enter a 4-digit password to be newly set, using buttons 0 – 9.
- 6 Enter the same password that you have entered in step 5.
 - If an unmatching password is entered, the operation goes back to step 5 for reentry from the beginning.
 - If you fail password change three times by entering unmatching passwords, the menu is closed.
- 7 Press **HOME MENU** to exit the menu.

NOTE

- Take a note of the newly set password and keep it handy.

Resetting the password

- 1 Press **HOME MENU**.
- 2 Press \uparrow/\downarrow to select "Setup", and then press **ENTER**.
- 3 Press \uparrow/\downarrow to select "Password", and then press **ENTER**.
 - The password entry screen appears. Enter your 4-digit password using buttons 0 – 9.
- 4 Press \uparrow/\downarrow to select "Reset", and then press **ENTER**.



- 5 Press \uparrow/\downarrow to select "Yes", and then press **ENTER**.
- 6 Press **HOME MENU** to exit the menu.

NOTE

- The above procedure will reset the password to the factory default (1234).

Cut along the dotted line and file after reading and filling out.

We suggested you write down your password so you don't forget it.

PDP-504HDG/PDP-434HDG

Your password No.:

--	--	--	--

If you forget the password

When the message "Please Input Your Password" is displayed in step 3 above, press the **ENTER** button on the remote control unit and hold it down for 3 seconds or longer.

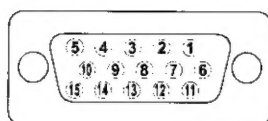
The password reverts to "1234".

Troubleshooting

Problem	Possible Solution
• No power.	<ul style="list-style-type: none"> • Make sure that the Plasma Display and the Media Receiver are connected correctly. (See page 19.) • Is the power cord disconnected? (See page 22.) • Has the main power been turned on? (See page 23.) • Check if you pressed buttons 0 - 9 or ⏻ on the remote control unit. (See page 23.) • If the indicator on the system lights up red, press 0 - 9 or ⏻ on the remote control.
• Green and red rectangles appear on the screen alternately.	<ul style="list-style-type: none"> • Check if the system cable has been disconnected or almost disconnected? (See page 19.)
• The system cannot be operated.	<ul style="list-style-type: none"> • External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the system after first turning the power of the Plasma Display and the Media Receiver, or unplugging the power cord and re-plugging it in after 1 or 2 minutes.
• Remote control unit does not operate.	<ul style="list-style-type: none"> • Are batteries inserted with polarity (+, -) aligned? (See page 21.) • Are batteries worn out? Replace with new batteries. (See page 21.) • Operate the remote control unit while pointing it toward the remote control sensor on the Plasma Display. (See page 16.) • Are you using it under strong or fluorescent lighting? • Is a fluorescent light illuminated to remote control sensor?
• No image and audio is presented.	<ul style="list-style-type: none"> • Check if the input source for video or PC has been unintentionally selected although you want to watch a TV channel. (See page 24.) • Check if you have selected a channel blocked with Child Lock. (See page 33.) Enter a password to temporarily cancel Child Lock. (See page 61.)
• No picture.	<ul style="list-style-type: none"> • Is connection to other components correct? (See pages 47 to 54.) • Is a non-compatible PC signal being input? (See page 51.)
• Images are presented but no audio is output.	<ul style="list-style-type: none"> • Check if you have selected the minimum volume. (See page 25.) • Check if you have muted sound. (See page 25.) • When using a video or PC as the input source, check that the audio terminal is also in connection. (See pages 47 to 51 and 53.) • Check the sound system selected for a TV channel where problems have occurred. (See page 32.) • Reselect the correct sound system.
• Sound is reversed between the right and left.	<ul style="list-style-type: none"> • Check if the speaker cable connections have been reversed between the right and left or if the speaker cable from either speaker has been disconnected. (See pages 12 and 20.)
• Sound is output from only a single speaker.	<ul style="list-style-type: none"> • Has the balance been correctly adjusted? (See page 41.)
• Picture is cut off.	<ul style="list-style-type: none"> • Is the image position correct? (See pages 56 and 57.) • Has the correct screen size been selected? (See page 58.)
• Strange color, light color, dark or color misalignment.	<ul style="list-style-type: none"> • Adjust the picture tone. (See pages 36 to 40.) • Is the room too bright? The picture may look dark in a room that is too bright. • Check the color system setting. (See pages 32 and 57.)
• Power is suddenly turned off.	<ul style="list-style-type: none"> • The system's internal temperature has increased. Remove any objects blocking vent or clean. (See pages 16 and 17.) • Check the power control setting. (See pages 43 and 44.) • Check the sleep timer setting. (See page 61.)

Code	Message	Check
SD04	Powering off. Internal temperature too high. Check temperature around PDP.	Check if the ambient temperature of the Plasma Display is high.
SD05	Powering off. Internal protection circuits activated, Is there a short in speaker cable?	Check the speaker cable connections between the Plasma Display and the speakers.
SD11	Powering off. Internal temperature too high. Check temperature around media receiver.	Check if the ambient temperature of the Plasma Display and the Media Receiver is high.

Signal names for 15-pin mini D-sub connector



(Front view)

Pin No.	Signal name
①	R
②	G
③	B
④	Not connected
⑤	Not connected
⑥	GND (ground)
⑦	GND (ground)
⑧	GND (ground)
⑨	+5V
⑩	GND (ground)
⑪	Not connected
⑫	SDA
⑬	HD
⑭	VD
⑮	SCL

NOTE

- A Macintosh adaptor may be required for use with some Macintosh computers.


Specifications

Item	50" Plasma Display, Model: PDP-504PG	43" Plasma Display, Model: PDP-434PG
Number of Pixels	1280 × 768 pixels	1024 × 768 pixels
Audio Amplifier	13 W + 13 W (1 kHz, 10 %, 8 Ω)	13 W + 13 W (1 kHz, 10 %, 8 Ω)
Surround System	SRS/FOCUS/TruBass	SRS/FOCUS/TruBass
Power Requirement	110–240 V \sim , 50/60 Hz, 363 W, 3.3–1.6 A (0.5 W Standby)	110–240 V \sim , 50/60 Hz, 298 W, 2.7–1.3 A (0.5 W Standby)
Dimensions	1270 (W) × 737 (H) × 98 (D) mm	1120 (W) × 652 (H) × 98 (D) mm
Weight	38 kg (83.8 lbs.)	30.5 kg (67.3 lbs.)

Item			Media Receiver, Model: PDP-R04G
Color System			PAL/SECAM/NTSC/4.43NTSC/PAL-M/PAL-N
TV Function	Receiving System		PAL: B/G, D/K, I, M, N SECAM: B/G, D/K NTSC: M 4.43NTSC: M
	Tuner	VHF/UHF	44.25–863.25 MHz
		CATV	Hyper-band, S1–S41 ch
	Auto Channel Preset		99 ch, Auto Preset
	Audio multiplex		NICAM/A2/BTSC System
Terminals	Rear	INPUT 1	COMPONENT VIDEO in, S-VIDEO in, AV in
		INPUT 2	S-VIDEO in, AV in
		INPUT 3	COMPONENT VIDEO in, S-VIDEO in, AV in, HDMI in
		Antenna	75 Ω Din Type for VHF/UHF in
	Front	INPUT 4	S-VIDEO, AV in
		PC	15 Pin mini D-Sub, Audio in
MONITOR OUTPUT Terminal		(Rear)	S-VIDEO out, AV out
Power Requirement			110–240 V \sim , 50/60 Hz, 35 W, 0.31–0.17 A (0.4 W Standby)
Dimensions			420 (W) × 90 (H) × 297 (D) mm
Weight			5.0 kg

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